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NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

PHOOTOGRAPHIC
EXPLOITATION
PRODUCTS

(See inside cover)

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MONTHLY INDEX TO PHOTOGRAPHIC EXPLOITATION PRODUCTS APRIL 1979

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PHOTOGRAPHIC EXPLOITATION PRODUCTS

MONTHLY INDEX TO PHOTOGRAPHIC EXPLOITATION PRODUCTS APRIL 1979

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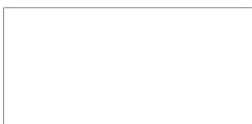
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INTRODUCTION

The Index to Photographic Exploitation Products is a guide to the contents of reports and memoranda produced by means of photographic interpretation. These are added to the Exploitation Products Data File (EPF) of the National Base of Image-Derived Information (NBIDI) when received by the National Photographic Interpretation Center (NPIC). The index includes imagery interpretation reports produced by various components of the Army, Navy, Air Force, Central Intelligence Agency, Defense Intelligence Agency, and foreign governments, as well as those produced by NPIC. At the request of COMIREX/NIDBWG, this publication is compiled and published monthly then cumulated annually by NPIC for the use of properly cleared components of USIB member organizations.

Listed documents are on file in NPIC, and microfiche copies are available to requesters when parent organizations are unable to provide copies. Information, such as bibliographies on specific subjects, is available from the EPF to answer requests which cannot be satisfied from the PEP.

Requests for regular distribution of the PEP, for additional information from the EPF, or for microfiche copies of documents should be channeled through appropriate liaison offices located in NPIC. Organizations which do not have a liaison office in NPIC should submit the request in writing to NPIC/PSG/RSD/IB.



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GUIDE TO USERS

The PEP consists of six indexes:

- Subject in alphabetic sequence.
- Originator in report type/number sequence.
- General category with subject in alphabetic sequence.
- Geographic coordinate sequence. (Geographic coordinates area listed where a single area is involved.)

- WAC/BE number sequence.
- Accession number sequence.

The accession number sequence may be referred to for complete information on each document, including edited abstracts. An asterisk at the end of an abstract indicates the abstract was prepared by the Reports Analysis Section. Selected information is contained in the other sequences. The accession number should be used when requesting microfiche copies of documents.

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ABBREVIATIONS AND NUMERIC CODES

REPORT TYPES

ARA -All Source Research Aid
BIBLO -Bibliography
BIIB -Basic Imagery Interpretation Brief
BIIR -Basic Imagery Interpretation Report
BRAD -Briefing Aid (Only Microfiche Copies are available)
BREF -Photographic Interpretation Brief

IRP -Imagery Research Paper
LOT -Letter of Transmittal
MCS -Mission Coverage Statistics
MEMO -Memorandum
MIPIR -Multi-mission Imagery Interpretation Report
MODL -Model Announcement
NAIR -New Applications of Imagery Report
NBRG -National Basic Reference Graphic
NEDR -Detailed Photographic Interpretation Report (Near East)
NEGR -General Photographic Interpretation Report (Near East)
NEIR -Initial Photographic Interpretation Report (Near East)
NESR -Special Photographic Interpretation Report (Near East)
NEWS -Technical Newsletter
NOTE -Photographic Interpretation Note
OAK -Initial Mission Readout
PAR -Photographic Analysis Report
PIN -Photographic Interpretation Note
PIR -Photographic Interpretation Report
REPT -Photographic Interpretation Report
SPIR -Special Photographic Intelligence Report

DPIR -Detailed Photographic Interpretation Report
DSIIB -Direct Support Photographic Interpretation Brief
DSIIR -Direct Support Photographic Interpretation Report
ENDR -Engineering Drawing
FEDR -Detailed Photographic Interpretation Report (Far East)
FEGR -General Photographic Interpretation Report (Far East)
FESR -Special Photographic Interpretation Report (Far East)
IIM -Imagery Interpretation Memorandum
IIR -Imagery Information Report
INFR -Inter-office Memorandum
IPIR -Initial Photographic Interpretation Report
IRA -Imagery Research Aid

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ABBREVIATIONS AND NUMERIC CODES (CONTINUED)

REPORT TYPES (Continued)

SR - Summary Report

STDY - Study

SUPR - Supplemental Photographic Intelligence Report

TP - Technical Publication

08 - CONFIDENTIAL

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SECURITY CLASSIFICATION

00 - UNCLASSIFIED

01 - TOP SECRET

02 - TOP SECRET

04 - SECRET

05 - SECRET

07 - CONFIDENTIAL

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ORIGINATOR

ACDA - ARMS CONTROL AND DISARMAMENT AGENCY

AF - AIR FORCE

ARMY - ARMY

CIA - CENTRAL INTELLIGENCE AGENCY

DIA - DEFENSE INTELLIGENCE AGENCY

GMAIC - GUIDED MISSILE AND ASTRONAUTICS INTELLIGENCE COMMITTEE

JOINT - JOINT (2 or more USIB members participating)

NATO - NORTH ATLANTIC TREATY ORGANIZATION

NAVY - NAVY

NPIC - NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NSA - NATIONAL SECURITY AGENCY

NTPC - NATIONAL TECHNICAL PROCESSING CENTER

SAC - SAC (544th RTS)

SAC-1 - SAC-1 (8th RTS)

SAC-2 - SAC-2 (3921 ST RTS)

SAC-C - SAC-C (15th RTS)

STL - SPACE TECHNOLOGY LABORATORY

USIB - UNITED STATES INTELLIGENCE BOARD

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EPF SUBJECT CATEGORIES

05 - AIR ACTIVITY

Airfields, seaplane stations, aircraft, storage, production, research, training, aerohydrodynamic vehicles, and air defense activity.

10 - GENERAL ACTIVITY

Complex studies, unidentified installations/equipment, and terrain or analyses. agriculture analyses.

13 - BIOLOGICAL/CHEMICAL WARFARE ACTIVITY

Research, production, testing, training, and storage.

15 - COMPREHENSIVE REPORTS

Mission readouts, summaries, and country or area studies.

25 - ELECTRONICS/COMMUNICATIONS ACTIVITY

Radar and radio installations/equipment, missile, air, naval related installations/equipment, production, research, testing.

30 - INDUSTRIAL ACTIVITY

Raw materials, basic processing, heavy and light industry, chemical plants, and power facilities. (For shipbuilding, see NAVAL. For nuclear power plants, see NUCLEAR.)

35 - MILITARY ACTIVITY

Ground force installations/equipment, production, testing, research, and repair.

40 - MISSILE & SPACE ACTIVITY

Sites, research, production, storage, and equipment.

55 - NUCLEAR ACTIVITY

Mining, production, research, testing, storage, and nuclear power plants.

60 - OVERLAYS/PLOTS

Mission Coverage Plots, Mission Coverage Statistics, tracks, and annotated maps.

65 - RESEARCH AND DEVELOPMENT ACTIVITY

Technical publications and miscellaneous R&D installations.

75 - NAVAL ACTIVITY

Submarine bases, naval bases and air stations, shipyards, research, and equipment.

80 - STORAGE ACTIVITY (NON-MILITARY)

POL storage, agricultural storage, and industrial storage.

85 - TRANSPORT AND PIPELINE ACTIVITY

Road and rail activity, pipelines, and canal systems.

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PART I

Listing of Reports Alphabetically

TOP SECRET CHESS RUFF ZARF UMBRA

| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| ADEN AMMUNITION STGE + TEST AREA M-1977 MRL | YS | 124745N 0450155E | 5086707 |
| ADEN AMMUNITION STGE + TEST AREA M-1977 MRL | YS | 124745N 0450155E | |
| AIRCRAFT, FLAGON F SU-15 | UR | | 5086585 |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | MG | | 5086654 |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | UR | | |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | PI | | |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | CZ | | |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | HU | | |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | BU | | |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | AL | | |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | RO | | |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | YO | | |
| AL ISKANDARIYAH PORT FACILITIES | EG | 311140N 0295255E | 5086552 |
| ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I | UR | 430910N 0762330E | 5086837 |
| ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I | UR | 431211N 0763603E | 5086836 |
| ANISIMOVO RADIO RELAY STATION NEW | UR | 591000N 0350930E | 5086726 |
| ARSEN'YEV AIRFRAME PLANT 116 CONST SUMMARY | UR | 440859N 1331523E | 5086305 |
| ARVAYHEER ARMY BKS AL1 RSV EQUIP ACTIVATED | MG | 462200N 1024800E | 5086698 |
| ARVAYHEER HELIPORT CURL AN-26/CRATE IL-14 | MG | 462100N 1025000E | |
| ASTARA RTP ACTIVITY INCREASE | IR | 3826 N 04852 E | 5086312 |
| ASTARA RTP ACTIVITY INCREASE | IR | 3826 N 04852 E | |
| ASTRAKHAN GAS FIELD DEVELOPMENT | UR | 4621 N 04803 E | 5086495 |
| BAGHAL CHUR URANIUM MINING ACTIVITY | PK | 301302N 0701635E | 5086309 |
| BALAKLAVA MARINE MAMMAL RSCH STA PROB IDENT | UR | 4430 N 03336 E | 5086504 |
| BALAKLAVA MARINE MAMMAL RSCH STA PROB IDENT | UR | 4430 N 03336 E | |

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| BANDAR ABBAS PORT FACILITIES | IR | 271039N 0561602E | S086312 |
| BANDAR E SHAHPUR PORT FACILITIES ACT DECREASE | IR | 302520N 0490450E | |
| BATAJNICA AIRFIELD AIRCRAFT BUNKERS | YO | 445630N 0201500E | S086643 |
| BELAYA TSEKOV AIRFIELD MOSS TU-126 | UR | 494749N 0300135E | S086843 |
| BERAT/STALIN AIRFIELD AIRCRAFT BUNKERS | AL | 404625N 0195405E | S086570 |
| BERESTOVITSA PETROLEUM PRODUCTS STORAGE U/G | UR | 530542N 0235615E | S087001 |
| BISKRA AIRFIELD HIND A MI-24/SHPG CONTS IDENT | AG | 344736N 0054417E | S086689 |

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|---------------------|----|------------------|---------|
| BORISOV AVTOKOLONNA | UR | 541540N 02A3030E | S086652 |
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|---|----|------------------|---------|
| BREST ENGINEER STORAGE FACILITY | UR | 520540N 0233815E | S086724 |
| BRONNITSY ARMORED VEHICLE RESEARCH FACILITY | UR | 552651N 0381427E | S086372 |
| BRONNITSY MILITARY VEHICLE TEST AREA | UR | 552700N 0380800E | |

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| BRYANSK GUIDED MISSILE SUPPORT EQUIP PLANT 2 | UR | 531713N 0342352E | S086372 |
| BRYANSK ROAD MACHINERY + GM SUPT EQUIP PLT 1 | UR | 531502N 0342419E | |
| BRYANSK ROAD MACHINERY + GM SUPT EQUIP PLT 1 | UR | 531502N 0342419E | |
| CERKLJE AIRFIELD AIRCRAFT BUNKERS | YO | 455401N 0153155E | S086566 |
| CHAGODA RADIO RELAY STATION NEW | UR | 591054N 0352005E | S086726 |
| CHENG TU AIRCRAFT ENGINE PLANT 420 | CH | 303858N 1040653E | S086489 |
| CHERVONO GLINSKOYE AIRFIELD FLAGON SU-15 | UR | 455650N 0292239E | S086720 |
| CHIANGTZU ARMY BARRACKS | CH | 285500N 0893620E | S086583 |
| CHIANGTZU ARMY BARRACKS NW | CH | 285702N 0893130E | |
| CHICHIHAERH ARMS + AMMUNITION PARTS PLANT 127 | CH | 472003N 1235832E | S086481 |
| CHINCHOU MILITARY AREA 2 | CH | 4107 N 12111 E | S086553 |
| CHINCHOU MILITARY BARRACKS AL5 + HQ ARTY DIV | CH | 410744N 1211059E | S086554 |
| CHITA ARMY BARRACKS NORTH AL2 + TRNG AREA 2 | UR | 520505N 1132920E | S086651 |
| CHITA ARMY BARRACKS NORTH AL2 + TRNG AREA 2 | UR | 520505N 1132920E | |
| CHUANTU MILITARY BARRACKS AREA | CH | 282620N 0893530E | S086583 |
| CHUEHMU ARMY BARRACKS/DEPOT/SUPPORT AREA | CH | 294028N 0942040E | |
| CHUEHMU ARMY BARRACKS/DEPOT/SUPPORT AREA | CH | 294028N 0942040E | |
| CHUEHNEIHSI MILITARY BARRACKS AREA | CH | 284220N 0893825E | |
| CHUSHUI AAA COMPLEX | CH | 2919 N 09014 E | |
| CONSTANTA/MIHAIL KOGALNICEANU AFLD RSBN-4N | RO | 442131N 0282920E | S086589 |
| DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | 160233N 1081215E | S086690 |
| DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | 160233N 1081215E | |

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | 160233N 1081215E | |
| DEPUTATSKIY TROPOSCATTER/MICROWAVE TOWER POSS | UR | 6912 N 13947 E | S086494 |
| DNEPROPETROVSK MISSILE DPC CONST SUMMARY | UR | 482601N 0345828E | S086305 |
| DNEPROPETROVSK MISSILE DPC SSM ACTIVITY | UR | 482601N 0345828E | S086488 |
| DOLINSKAYA AIRFIELD LRA SUPPORT CAPABILITY | UR | 480130N 0324154E | S086833 |
| DOLINSK/SOKOL AIRFIELD FLAGON SU-15 COUNTS | UR | 471536N 1424617E | S086828 |
| DOMNA AIRFIELD FLOGGER MIG-23 | UR | 515500N 1130718E | S086714 |
| DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPSN | UR | 425400N 1322110E | S086302 |
| DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPSN | UR | 425400N 1322110E | |
| DZEM ARMY BARRACKS AL1 | CH | 294749N 0935803E | S086583 |
| DZEM ARMY BARRACKS AL2 | CH | 294845N 0935010E | |
| ELECTRONICS, BOW + ARROW INTERFEROMETER MODIF | UR | | S086671 |
| ELECTRONICS, ESM INTERCEPT SYSTEM NEW POSS | UR | | S086664 |
| ELECTRONICS, ICBM TYPE 3H GUIDANCE RLTD FACS | UR | | S086273 |
| ELECTRONICS, RADAR NETWORK COASTAL/NW BORDER | AG | | S086498 |
| ELECTRONICS, RADIO RELAY STATIONS NEW TYPE | UR | | S086378 |
| ELECTRONICS, 64-ELEMENT TLMTRY ANTS MSL ASSOC | UR | | S086448 |
| EMBA MTC LAUNCH CPLX SPOON REST D RDR VAN MTD | UR | 483103N 0580207E | S086477 |
| ENGELS/LEBEDOVO AIRFIELD LRA SUPPORT CPBL | UR | 511712N 0461355E | S086832 |
| FAUSTOVO AEROSPACE R+D FACILITY | UR | 552746N 0383143E | S086272 |
| FAUSTOVO AEROSPACE R+D FACILITY SSM ACTIVITY | UR | 552746N 0383143E | S086488 |

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| SUBJECT | COUN | COORD | ACCN NO. |
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| FEODOSIYA SHIPYARD YUZH-A CLASS PGHB NEW | UR | 450711N 0352953E | S086631 |
| FEODOSIYA SHIPYARD YUZNAYA TOCHKA FAC NEW U/C | UR | 450711N 0352953E | S086662 |
| FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC | SF | 340420S 0184530E | S086375 |
| FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC | SF | 340420S 0184530E | |
| GDANSK MILITARY BARRACKS | PL | 542230N 0184027E | S086644 |

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| GOLERKANY CIVIL DEFENSE GOVERNMENT RELOC SITE | UR | 4719 N 02905 E | S086376 |
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| GORKIY ARMAMENT PLT NOVOYE SORMOVO STALIN 92 | UR | 561936N 0435321E | S086372 |
| GORKIY MOTOR VEHICLE PLANT 6AZ | UR | 561448N 0435341E | |
| GORODOK AIRFIELD NE LRA AIRCRAFT SUPPORT CPBL | UR | 494935N 0234130E | S086687 |
| GOSTOMEL AIRFIELD LRA AIRCRAFT SUPPORT CPBL | UR | 503601N 0301143E | S086825 |

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|---|----|------------------|---------|
| GULF OF SOLLUM ANCHORAGE SOVIET NAVAL UNITS | EG | 314700N 0253500E | S086630 |
| HAICHENG ARMY BARRACKS NNE AL7 | CH | 405148N 1224519E | S086574 |
| HAILUNG ARMY BARRACKS WEST AL3 | CH | 423847N 1254839E | S086560 |
| HEISHAN ARMY BARRACKS AL1 | CH | 414115N 1220640E | S086556 |
| HOCHING ARMY BARRACKS AL2 ARMOR DPL NEW | CH | 422050N 0862245E | S086693 |

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| HSIMIAO ARMY BARRACKS AL1 | CH | 410120N 1001312E | S086538 |
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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| HSIMIAO ARMY BARRACKS AL2 | CH | 410025N 1001310E | S086540 |
| HUINAN ARMY BARRACKS WEST AL1 | CH | 424103N 1255943E | S086559 |
| H-3 AIRFIELD CONSTRUCTION ACTIVITY | IZ | 325616N 0394444E | S086672 |
| INDUSTRY, PETROLEUM REFINING DEVELOPMENTS | UR | | S086376 |
| IVANKOVSKIY GUIDED MISSILE PLT CONST SUMMARY | UR | 564521N 0370700E | S086305 |
| IVANO FRANKOVSK ARMY BARRACKS AL5 | UR | 485415N 0244005E | S086853 |
| IVANOVO CRANE PLANT | UR | 565819N 0405715E | S086372 |
| JENCHINGKANG STRONGPOINT 1 | CH | 272608N 0885426E | S086583 |
| JENCHINGKANG STRONGPOINT 2 | CH | 272548N 0885524E | |
| JIHKOTSE ARMY BARRACKS AL2 | CH | 291456N 0885247E | |
| JIHKOTSE ARMY BARRACKS AL3 | CH | 291540N 0885205E | |
| JIHKOTSE ARMY BARRACKS AL4 | CH | 291900N 0890210E | |
| JIHKOTSE MILITARY AREA EAST | CH | 292001N 0885803E | |
| JOLFA RAIL TRANSSHIPMENT POINT ACT DECREASE | IR | 3857 N 04538 E | S086312 |
| KALININ RAILROAD LOCOMOTIVE + CAR MFG/RPR PLT | UR | 565206N 0355053E | S086372 |
| KALININO AIRFIELD LRA SUPPORT CAPABILITY | UR | 410630N 0441600E | S086829 |
| KAMENSK SHAKHTINSKIY SOLID MOTOR PROD PLANT | UR | 481750N 0401049E | S086678 |
| KANGKO MILITARY BARRACKS AREA | CH | 291922N 0942330E | S086583 |
| KAPUSTIN YAR MTC RANGEHEAD TRKG FAC BOW/ARROW | UR | 483858N 0454538E | S086671 |
| KAUNAS AIRCRAFT REPAIR BASE | UR | 545240N 0235500E | S086564 |

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| SUBJECT | COUN | COORD | ACCN NO. |
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| KAZACHYE U/I CONSTRUCTION | UR | 7044 N 13610 E | S086494 |
| KAZAN AIRFRAME PLANT A387 | UR | 554801N 0490251E | S086702 |

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|---|----|------------------|---------|
| KHABAROVSK SHIPYARD USSURI SOUTH 143M ARD T | UR | 482405N 1350226E | S086861 |
| KHABAROVSK SHIPYARD USSURI SOUTH 876 ARD D | UR | 482405N 1350226E | S086999 |
| KHMELNITSKIY ARMY TRAINING AREA SE | UR | 492330N 0270200E | S086844 |
| KHORRAMSHAHR PORT FACILITIES DISRUPTIONS | IR | 302615N 0480910E | S086312 |
| KIPELOVO AIRFIELD | UR | 591124N 0390740E | S086662 |
| KIPELOVO AIRFIELD GCA SITE | UR | 591124N 0390740E | |
| KIPELOVO AIRFIELD PETROLEUM PRODUCTS STGE RSV | UR | 591329N 0390947E | |
| KIPELOVO NAVAL AVIATION COMD POST BKR SOUTH | UR | 591130N 0390810E | |
| KIPELOVO NAVAL AVIATION COMMAND POST BKR NE | UR | 591414N 0391138E | |
| KIRISHI RADIO RELAY STATION | UR | 592630N 0320040E | S086726 |
| KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY | UR | 583834N 0493709E | S086305 |
| KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY | UR | 583834N 0493709E | |

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| KLINETS RADIO RELAY STATION NEW | UR | 592900N 0325400E | S086726 |
| KOCHUBEYEVKA AIRFIELD NO SIGNIFICANT CHANGE | UR | 494444N 0350132E | S086831 |
| KOLPINO SHIPYARD MIDDLE NEVA T-58 MSF MODIF | UR | 594716N 0303754E | S086846 |
| KOSTROMA CONSTRUCTION + GM SUPPORT EQUIP PLT | UR | 574534N 0405333E | S086372 |
| KOSTROMA CONSTRUCTION + GM SUPPORT EQUIP PLT | UR | 574534N 0405333E | |

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| KOTA ARMY BARRACKS AL1 | CH | 295133N 0954557E | S086583 |
| KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | 562208N 0411934E | S086305 |
| KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | 562208N 0411934E | |
| KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | 562208N 0411934E | |
| KRASNOYARSK ARMS PLT VOROSHILOV CONST SUMMARY | UR | 560054N 0925913E | |
| KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT | UR | 560236N 0930237E | S086681 |
| KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT | UR | 560236N 0930237E | |
| KRASNY BOR RADIO RELAY STATION NEW | UR | 594025N 0304210E | S086726 |
| | | | |
| KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD | CH | 295246N 1220033E | S086370 |
| KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD | CH | 295246N 1220033E | |
| | | | |
| KULAR COMMUNICATIONS FACILITY SEARCH | UR | 7038 N 13420 E | S086494 |
| KUNGKA AAA SITE | CH | 2917 N 09101 E | S086583 |
| KUNGKA MILITARY VEHICLE MAINTENANCE/STGE DPO | CH | 291647N 0910108E | |
| KUNGPUCHIANGTA ARMY BARRACKS AL1 | CH | 295310N 0931425E | |
| | | | |
| LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | 2150 N 10645 E | S086692 |
| LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | 2150 N 10645 E | |
| LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | 2150 N 10645 E | |
| LASA AAA SITES | CH | 2939 N 09105 E | S086583 |
| LASA ARMY BARRACKS SOUTH AL2 | CH | 293755N 0910830E | |
| LASA ARMY BARRACKS WEST AL5 | CH | 293827N 0910141E | |
| LASA ARMY MOTOR TRANSPORT BARRACKS + STGE AL7 | CH | 293912N 0910312E | |
| LASA ARMY MOTOR TRANSPORT BARRACKS + STGE AL7 | CH | 293912N 0910312E | |
| LASA MILITARY BARRACKS AL4 + HQ TIBET MD | CH | 293846N 0910740E | |
| LENINGRAD GUIDED MSL PLANT 458 CONST SUMMARY | UR | 595934N 0301721E | S086305 |

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| LENINGRAD HEAVY EQUIP PLANT 185 FAB BLDG NEW | UR | 595302N 0301456E | S086849 |
| LENINGRAD INSTRUMENT STATE PLANT LI7 | UR | 595613N 0302319E | S086637 |
| LIAOYANG ARMY BARRACKS AL2 + HQ ARTILLERY DIV | CH | 411443N 1230827E | S086573 |
| LIAOYANG MILITARY AREA 1 | CH | 4116 N 12310 E | S086572 |
| LIENKENGWANG IRBM SITE 4 | CH | 300202N 1173634E | S086333 |
| LIENKENGWANG IRBM SITE 5 | CH | 300636N 1173433E | |
| LIENKENGWANG IRBM SITE 6 | CH | 300846N 1173421E | |
| LIENKENGWANG IRBM SITE 8 | CH | 300446N 1173443E | |
| LIEPAJA AIRFIELD TALL KING AW RADAR ELCT O/B | UR | 562750N 0210120E | S086474 |
| LINCHIH ARMY BARRACKS AL1 | CH | 292951N 0942727E | S086583 |
| LINCHIH ARMY BARRACKS AL2 | CH | 293353N 0942906E | |
| LIUCHOU AIRFIELD BEAGLE IL-28/BAT TU-2 DPL | CH | 241638N 1092304E | S086464 |
| | | | |
| LOMONOSOV LASER WPNS FAC FAN-SHAPED RANGE U/C | UR | 595412N 0290118E | S086446 |
| | | | |
| LOYANG MOTOR VEHICLE PLANT NORTH HSICHENGLIU | CH | 350450N 1122541E | S086860 |
| LYUBAN RADIO RELAY STATION NORTH NEW | UR | 592150N 0311450E | S086726 |
| MAKAT ASM IMPACT AREA B RADAR TGTS/CRTRS NEW | UR | 480600N 0534400E | S086506 |
| MANDALGOVI MILITARY INSTALLATION MRD MBLZTN | MG | 454459N 1061443E | S086697 |
| | | | |
| MARY SAM SUPPORT FACILITY 2 | UR | 373510N 0615130E | S086713 |
| MARY SAM SUPPORT FACILITY 3 SA-6 ACTIVITY | UR | 373500N 0615130E | |

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| MAYKOP ARMY BKS SOUTH MRD SECOND GENERATION | UR | 443428N 0400732E | S086656 |
| MBARARA ARMY BARRACKS BATTLE DAMAGE | UG | 003430S 0304140E | S086786 |
| MIENYANG MILITARY BARRACKS + STORAGE AREA | CH | 313000N 1044535E | S086584 |
| MIENYANG MILITARY BARRACKS + STORAGE AREA | CH | 313000N 1044535E | S086584 |
| MILIN ARMY BARRACKS AL2 | CH | 291120N 0940322E | S086583 |
| MILITARY, ACTIVITY SUMMARY CHENG TU MR | CH | | S086583 |
| MILITARY, ACTIVITY SUMMARY SOUTH YEMEN FORCES | YE | | S086634 |
| MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER | YE | | S086491 |
| MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER | YE | | S086501 |
| MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER | YE | | S086499 |
| MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER | YE | | S086500 |
| MILITARY, ARMORED FORCES REORGANIZATION | IZ | | S086497 |
| MILITARY, ARMS + TECH ASSISTANCE NORTH KOREAN | LY | | S086376 |
| MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086470 |
| MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086469 |
| MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086468 |
| MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086694 |
| MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086692 |
| MILITARY, GAZ-66 SMOKE GENERATING VEHICLE | UR | | S086562 |

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| MILITARY, GROUND FORCES WESTERN MD | EG | | S086311 |
| MILITARY, MOTORIZED RIFLE BNS BTR-60PB COUNTS | UR | | S086376 |

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| SUBJECT | COUN | COORD | ACCN NO. |
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| MILITARY, M-1977 MRL RESUPPLY VEHICLE | UR | | S086857 |
| MILITARY, M-1977 SELF-PROPELLED GUN NEW | KN | | S086472 |
| MILITARY, M-1977 240MM SELF-PROPELLED MORTAR | UR | | S086857 |
| MILITARY, RAIL TRANSLOADING FACILITIES | PL | | S086484 |
| MILITARY, SIGNAL REGIMENTS DPL/ORG/EQUIPMENT | UR | | S086444 |
| MILITARY, T-64 MEDIUM TANK | UR | | S086850 |
| MILITARY, VIETNAM-CHINA BORDER ACTIVITY | VM | | S086469 |
| MILITARY, VIETNAM-CHINA BORDER ACTIVITY | VM | | S086468 |
| MILITARY, VIETNAM-CHINA BORDER ACTIVITY | VM | | S086470 |
| MILITARY, VIETNAM-CHINA BORDER ACTIVITY | VM | | S086694 |
| MILITARY, VIETNAM/CHINA BORDER ACTIVITY | VM | | S086692 |
| MILOVICE SA-6 TRNG SITE A02 FLAT FACE MODIF | CZ | 501530N 0145335E | S086588 |
| MINSK MOTOR VEH + GM EQUIP PLANT VEH TEST FAC | UR | 535131N 0273931E | S086445 |
| MINSK MOTOR VEH + GM EQUIP PLANT VEH TEST FAC | UR | 535131N 0273931E | |
| MINSK MOTOR VEHICLE + GM SUPPORT EQUIP PLANT | UR | 535131N 0273931E | S086372 |
| MINSK MOTOR VEHICLE + GM SUPPORT EQUIP PLANT | UR | 535131N 0273931E | |

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| MISSILES, AAM COMPONENTS/HARDWARE | UR | | S086272 |
| MISSILES, AS-4 + VARIANT | UR | | S086473 |
| MISSILES, CRUISE MISSILE CRATE PRODUCTION | CH | | S086482 |
| MISSILES, CSS-X-4 1ST STAGE TRANSFER CAR B2 | CH | | S086571 |
| MISSILES, CSS-X-4 1ST STAGE TRANSPORTER C1 | CH | | |
| MISSILES, CSS-X-4 1ST STAGE TRANSPORTER E | CH | | |
| MISSILES, CSS-X-4 2ND STAGE TRANSFER CAR B3 | CH | | |

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| SUBJECT | COUN | COORD | ACCN NO. |
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| MISSILES, CSS-X-4 2ND STAGE TRANSPORTER C2 | CH | | |
| MISSILES, CSS-X-4 2ND STAGE TRANSPORTER F | CH | | |
| MISSILES, CSS-X-4/CSL-2 PAYLOAD TRANSPORTER | CH | | |
| MISSILES, CSS-1 A-FRAME CRANE | CH | | |
| MISSILES, CSS-1 LAUNCH STAND TRAILER | CH | | |
| MISSILES, CSS-1 LAUNCH STAND TRUCK | CH | | |
| MISSILES, CSS-1 TRANSPORTER ROAD TYPE A1 | CH | | |
| MISSILES, CSS-1 TRANSPORTER/ERECTOR | CH | | |
| MISSILES, CSS-1/CSS-2 CHERRY PICKER | CH | | |
| MISSILES, CSS-1/CSS-2 CRANE TRUCK MOUNTED | CH | | |
| MISSILES, CSS-1/CSS-2 TRANSFER RAILCAR B1 | CH | | |
| MISSILES, CSS-1/CSS-2 TRANSPORTER RAIL TYPE A | CH | | |
| MISSILES, CSS-2 CHECKOUT SUPPORT VEHICLE POSS | CH | | |
| MISSILES, CSS-2 CONTROL/ALIGNMENT VAN | CH | | |
| MISSILES, CSS-2 LAUNCH STAND TRANSPORTER | CH | | |
| MISSILES, CSS-2 MOBILE LIGHTNING ARRESTER | CH | | |
| MISSILES, CSS-2 PROPELLANT VEHICLE 1 TYPE K | CH | | |
| MISSILES, CSS-2 PROPELLANT VEHICLE 2 TYPE L | CH | | |
| MISSILES, CSS-2 TRANSPORTER/ERECTOR 1 | CH | | |
| MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 1 | CH | | |
| MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 1 | CH | | |
| MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 2 | CH | | |
| MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 2 | CH | | |
| MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 1 | CH | | |
| MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 1 | CH | | |
| MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 2 | CH | | |
| MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 2 | CH | | |
| MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 1 | CH | | |
| MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 1 | CH | | |
| MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 2 | CH | | |
| MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 2 | CH | | |
| MISSILES, CSS-2/CSS-3 TRANSPORTER 1 | CH | | |
| MISSILES, CSS-2/CSS-3 TRANSPORTER 1 | CH | | |
| MISSILES, CSS-2/CSS-3 TRANSPORTER 2 | CH | | |
| MISSILES, CSS-2/CSS-3 TRANSPORTER 2 | CH | | |
| MISSILES, CSS-3 2ND STAGE TRANSPORTER | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE A | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE B | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE C1 | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE C2 | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE D | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE F | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE G | CH | | |

TOP SECRET CHESS RUFF ZARF UMBRA

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| SUBJECT | COUN | COORD | ACCN NO. |
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| MISSILES, PROPELLANT RAILCAR TYPE H | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE I | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE J | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE K | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE L | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE M | CH | | |
| MISSILES, PROPELLANT RAILCAR TYPE N | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE A | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE B | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE C | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE D | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE E | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE F | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE M | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE N | CH | | |
| MISSILES, PROPELLANT VEHICLE TYPE O | CH | | |

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| MISSILES, SA-8 CANISTER | UR | | S086586 |
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| MISSILES, SA-8 TRANSLOADER | UR | | S086586 |
| MISSILES, SRBM TRANSPORTER/ERECTOR TYPE C | CH | | S086571 |
| MISSILES, SSM DEVELOPMENTS R+D/PROD INSTLS | UR | | S086488 |
| MISSILES, SSM GANTRY CRANE | CH | | S086571 |
| MISSILES, SSM GROUND SUPPORT EQUIPMENT | CH | | |
| MISSILES, SS-11 COMPLEXES ACTIVITY SUMMARY | UR | | S086851 |
| MISSILES, SS-11 PROPELLANT TRANSFER FAC MODIF | UR | | S086284 |
| MISSILES, SS-11/SS-17 COMPLEXES ACT SUMMARY | UR | | S086851 |
| MISSILES, SS-11/SS-19 COMPLEXES ACT SUMMARY | UR | | |
| MISSILES, SS-9/SS-18 COMPLEXES ACT SUMMARY | UR | | |
| MISSILES, TRANSPORTER RAIL TYPE D | CH | | S086571 |
| MISSILES, TRANSPORTER RAIL TYPE E | CH | | |
| MISSILES, TRANSPORTER ROAD TYPE B | CH | | |

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| SUBJECT | COUN | COORD | ACCN NO. |
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| MISSILES, TRANSPORTER ROAD TYPE G | CH | | |
| MOSKVA ARMY BARRACKS AL42 + SIGNAL REGIMENT | UR | 555222N 0372840E | S086840 |
| MOSKVA GUIDED MISSILE PLANT 41 CONST SUMMARY | UR | 554939N 0373023E | S086305 |
| MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV | UR | 554547N 0375209E | S086272 |
| MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV | UR | 554547N 0375209E | |
| MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | UR | 554547N 0375209E | S086488 |
| MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | UR | 554547N 0375209E | |
| MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY | UR | 555544N 0373027E | S086305 |
| MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY | UR | 555544N 0373027E | |
| MOSKVA MISSILE ASSOCIATED INSTL SILO CONV | UR | 551143N 0363735E | S086487 |
| MOSKVA MISSILE PROD PLT FILI 23 CONST SUMMARY | UR | 554530N 0372928E | S086305 |
| MOSKVA MISSILE PRODUCTION PLANT FILI 23 | UR | 554530N 0372928E | S086272 |
| MOSKVA MISSILE PRODUCTION PLT FILI 23 SSM ACT | UR | 554530N 0372928E | S086488 |
| MOSKVA MOTOR VEHICLE PLANT LIKHACHEV | UR | 554146N 0373833E | S086372 |
| MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 | UR | 554527N 0374354E | S086650 |
| MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 | UR | 554227N 0374354E | S086839 |
| MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | UR | 555130N 0373630E | S086488 |
| MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | UR | 555130N 0373630E | |

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| NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | 283752N 1155526E | S086482 |
| NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | 283752N 1155526E | |
| NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | 283752N 1155526E | |
| NENOKSA NAVAL MTC LAUNCH FAC D ERECTOR/LOADER | UR | 643835N 0391220E | S086629 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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| SUBJECT | COUN | COORD | ACCN NO. |
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| NIENSHENG MILITARY CONVOYS | CH | 2152 N 10705 E | S086692 |
| NOVOCHERKASSK ARMY BARRACKS AL9 | UR | 472430N 0400625E | S086859 |
| NOVOGRUDOK ARMY BARRACKS AL1 | UR | 533458N 0254745E | S087000 |

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| OBRVA AIRFIELD AIRCRAFT BUNKERS | YO | 434915N 0203509E | S086648 |
| OCHINACHI DEFENSIVE STRONGPOINT | CH | 422040N 1011400E | S086551 |
| OKTYABRSKOYE AIRFIELD PRE-FLIGHT ACTIVITY | UR | 451930N 0340623E | S086632 |
| OLANG MILITARY BARRACKS AREA | CH | 290820N 0934218E | S086583 |
| OMSK AIRFRAME PLANT 166 CONSTRUCTION SUMMARY | UR | 545759N 0732748E | S086305 |
| ONDANGUA AIRFIELD AIRCRAFT INCREASE | WA | 175300S 0155800E | S086695 |
| OREL ROAD MACHINERY/MISSILE SUPT EQUIP PLANT | UR | 525520N 0360132E | S086372 |
| OREL ROAD MACHINERY/MISSILE SUPT EQUIP PLANT | UR | 525520N 0360132E | |
| ORENBURG GUIDED MISSILE PLANT 47 SSM ACTIVITY | UR | 514818N 0550802E | S086488 |
| ORENBURG GUIDED MISSILE PLT 47 CONST SUMMARY | UR | 514818N 0550802E | S086305 |
| OSIPOVICH I ARMY BKS SOUTH AL2 M-1977 MRL DPL | UR | 531727N 0283837E | S086465 |

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| SUBJECT | COUN | COORD | ACCN NO. |
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| PAICHENG ARMY BARRRACKS NORTH AL5 | CH | 453910N 1225015E | S086582 |
| PANGTA ENGINEER BARRACKS AL1 | CH | 303338N 0970638E | S086583 |
| PANSHIH ARMY BARRACKS SE AL1 + HQ ARTY DIV | CH | 425604N 1260424E | S086558 |
| PANSHIH ARMY BARRACKS SOUTH AL2 | CH | 425150N 1260250E | S086561 |
| PANSHIH MILITARY AREA 1 | CH | 4256 N 12604 E | S086557 |
| PAVLOGRAD SOLID MOTOR ASBLY + TEST SUPT FACIL | UR | 482658N 0355723E | S086685 |
| PAVLOGRAD SOLID MOTOR PRODUCTION PLANT | UR | 483401N 0354912E | S086673 |
| PEICHEN ARMY BARRACKS AL1 | CH | 413607N 1214655E | S086555 |
| PELINDABA STONE QUARRY EXPLOSIONS | SF | 2549 N 02755 E | S086503 |
| PERM ICBM COMPLEX HQ COMSAT STATION ANTENNAS | UR | 574550N 0561125E | S086816 |
| PERVOMAYSK MILITARY INSTALLATION | UR | 480220N 0305110E | S086856 |
| PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV | UR | 595914N 0305935E | S086684 |
| PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV | UR | 595914N 0305935E | S086684 |
| PETROPÄVLOVSK/YELIZOVO AIRFIELD COOT MODIFIED | UR | 531017N 15A2711E | S086505 |
| PIPITANG MILITARY STORAGE AREA | CH | 272710N 08A5500E | S086583 |

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| SUBJECT | COUN | COORD | ACCN NO. |
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| PIPITANG STRONGPOINT | CH | 272555N 0885525E | |
| PLESETSK MTC RANGEHEAD TRACKING FAC BOW/ARROW | UR | 624645N 0402010E | S086671 |
| POCHEP AIRFIELD LRA AIRCRAFT SUPPORT CPBL | UR | 525555N 0332400E | S086827 |
| PROJECT HAT TRICK | CH | | S086583 |
| PULA AIRFIELD AIRCRAFT BUNKERS | YO | 445340N 0135520E | S086641 |
| PUNTA MOVIDA NAVAL FACILITY PROB CONST ACT | CU | 220315N 0802640W | S086663 |

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| RANGAO ARMY BARRACKS AL1 | CH | 294445N 0960650E | S086583 |
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| RIGA AIRCRAFT REPAIR BASE | UR | 565832N 0240351E | S086568 |
| RIGA AIRFIELD WEST MOSS TU-126 SEARCH | UR | 565525N 0235817E | S086834 |
| ROSTOV AIRCRAFT REPAIR BASE | UR | 471546N 0394846E | S086646 |
| ROVNO MILITARY SUPPLY DEPOT NORTH 001 | UR | 503749N 0261437E | S086645 |
| RUBTSOVSK TRACTOR PLANT ALTA 1 | UR | 513222N 0811237E | S086372 |

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| SARY SHAGAN MTC COMPLEX B ABM-1B SILOS | UR | 460106N 0722804E | S086376 |
| SARY SHAGAN MTC COMPLEX E SA-X-10 TRAINING | UR | 453745N 0723500E | |
| SARY SHAGAN MTC PHASED-ARRAY RADAR FAC NORTH | UR | 463600N 0743000E | S086705 |
| SARY SHAGAN MTC R+D COMPLEX FACILITY A | UR | 455045N 0733104E | S086665 |
| SAVELYEVO RADIO RELAY STATION | UR | 560803N 0370420E | S086725 |

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| SEVERODVINSK SHIPYARD 402 CRATES U/I | UR | 643438N 0394832E | S086447 |
| SEVERODVINSK SHIPYARD 402 LAUNCH BASIN OPRTNL | UR | 643438N 0394832E | S086376 |
| SEVERODVINSK SHIPYARD 402 PRESSURE HULLS PROB | UR | 643438N 0394832E | S086854 |
| SHAIBAH AIRFIELD HIND D MI-24 IDENTIFICATION | IZ | 302535N 0473842E | S086466 |
| SHARM ASH SHAYKH PORT FAC SPECIAL-PURPOSE AKL | EG | 275110N 0341715E | S086670 |
| SHIPS, ARD D FLOATING DRYDOCK | UR | | S086999 |
| SHIPS, T-58 CLASS MSF MODIFIED | UR | | S086846 |
| SHIPS, V-3 CLASS SSN | UR | | S086376 |
| SHIPS, YUZH A CLASS PGHB | UR | | S086631 |
| SHIPS, 143-METER ARD T | UR | | S086861 |
| SHIPS, 960-TON SUBMARINE | YO | | S086587 |
| SHUANGCHENG TZU ARMY BARRACKS AL1 | CH | 410650N 1001650E | S086541 |
| SHUANGCHENG TZU ARMY BARRACKS AL2 | CH | 410631N 1002025E | S086542 |
| SHUANGCHENG TZU DEFENSIVE STRONGPOINT | CH | 411613N 1002013E | S086543 |
| SHUANGCHENG TZU MILITARY AREA | CH | 4130 N 10030 E | S086537 |

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| SUBJECT | COUN | COORD | ACCN NO. |
|--|------|------------------|----------|
| SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | CH | 410800N 1001500E | S086376 |
| SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | CH | 410800N 1001500E | |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 1 | CH | 421851N 1010654E | S086550 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 2 | CH | 415310N 1003327E | S086546 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 3 | CH | 415610N 1010140E | S086547 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 4 | CH | 414323N 1002727E | S086545 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 5 | CH | 414557N 1004208E | S086544 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 6 | CH | 420703N 1005405E | S086549 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 8 | CH | 402546N 0995046E | S086539 |
| SHUANGCHENG TZU WEAPONS POSITIONS | CH | 420318N 1012212E | S086548 |

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|--|----|------------------|---------|
| SLAVUTA AMMUNITION DEPOT WEST DA1 | UR | 501827N 0264902E | S086657 |
| SOKHONDO AIRFIELD | UR | 515040N 1122850E | S086354 |
| SOLIKAMSK POWDER + SOLID MOTOR PLANT BOROVSK | UR | 594020N 0564252E | S086676 |
| SPACE, CSS-X-4/CSL-2 PAYLOAD TRANSPORTER | CH | | S086571 |

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|---|----|------------------|---------|
| SSUPING ARMY BARRACKS EAST AL5 TANK TRSHPM | CH | 430656N 1244257E | S086471 |
| SSUPING MILITARY AREA 1 | CH | 4310 N 12420 E | S086579 |
| SSUPING MILITARY BKS AL1/HQ ANTITANK ARTY DIV | CH | 431024N 1242105E | S086580 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850 | UR | 534200N 0555807E | S086677 |
| STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850 | UR | 534200N 0555807E | |
| SUMBER SUMA MILITARY BKS AL1 MT-LB SAM TEL | MG | 462048N 1082410E | S086688 |
| SUMBER SUMA MILITARY BKS AL1 MT-LB SAM TEL | MG | 462048N 1082410E | |
| SVERDLOVSK AIR DEFENSE COMMAND POST | UR | 564215N 0602340E | S086817 |
| SVERDLOVSK GUIDED MISSILE PLT 8 CONST SUMMARY | UR | 565213N 0603707E | S086305 |
| SVISLOCH PETROLEUM PRODUCTS STORAGE PUG | UR | 530010N 0240220E | S087001 |
| SZOMBATHELY AMMUNITION DEPOT KOSZEG 501 | HU | 472008N 0163550E | S087002 |
| TAHSIEN NAVAL FACILITIES APPROACHES | CH | 2953 N 12157 E | S086369 |
| TALACHIH AIRFIELD FANTAN A F-9 IDENTIFICATION | CH | 363740N 1050004E | S086633 |
| TARNOWSKIE GORY STORAGE FACILITY U/C | PL | 502740N 0185312E | S086675 |
| TASHKENT AIRFIELD CANDID IL-76 LIBYAN/IRAQI | UR | 411846N 0692331E | S086691 |

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|---|----|------------------|---------|
| TETE CHINGOZI AIRFIELD COMBAT DAMAGE | MZ | 160612S 0333820E | S086467 |
| TETE CHINGOZI AIRFIELD COMBAT DAMAGE | MZ | 160612S 0333820E | |
| TIENWEI MTC SSM | CH | 255520N 1024928E | S087005 |
| TIKSI TROPOSCATTER STATION 19 METER DISH ANTS | UR | 713806N 1284509E | S086494 |

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|---|----|------------------|---------|
| TITOGRAD INTERNATIONAL AIRFIELD AIRCRAFT BKRS | YO | 422130N 0191507E | S086642 |
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|---|----|--|---------|
| TRANSPORTATION, ACTIVITY DISRUPTION SOV RDR | IR | | S086312 |
| TRANSPORTATION, RAIL LINE TRANSLOADING FACILS | UR | | S086848 |

TOP SECRET CHESS RUFF ZARF UMBRA

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| TRANSPORTATION, RAIL LINE TRANSLOADING FACILS | UR | | S086847 |
| TRANSPORTATION, RAIL TRANSLOADING FACILS MIL | PL | | S086484 |
| TRANSPORTATION, ROAD CONST CHINESE CEASED | LA | | S086496 |
| TSUMUTSUNG ARMY BARRACKS NW + HQ DIVISION | CH | 294543N 0941521E | S086583 |
| TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | 320455N 0235850E | S086376 |
| TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | 320455N 0235850E | |
| TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | 320455N 0235850E | |
| TUNG LIAO ARMY BARRACKS SW AL7 | CH | 433520N 1221415E | S086581 |
| TUZLA AIRFIELD AIRCRAFT BUNKERS | YO | 442730N 0184330E | S086565 |
| TYURATAM MTC RANGEHEAD TRACKING FAC BOW/ARROW | UR | 454230N 0632020E | S086671 |
| TYURATAM MTC SPACE SITE U1/2 | UR | 460214N 0630212E | S086300 |
| TYURATAM MTC SPACE SITE U1/2 | UR | 460214N 0630212E | S086283 |
| TYURATAM MTC TRACKING FACILITY 5 BOW + ARROW | UR | 515333N 0672113E | S086671 |

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|--|----|------------------|---------|
| ULAAN UUL MILITARY TRNG AREA JOINT TRNG EXER | MG | 443051N 1111151E | S086696 |
| ULAN UDE MILITARY BARRACKS AL3 REGT ABSENT | UR | 515111N 1075329E | S086699 |
| ULYANOVSK MOTOR VEHICLE + MSL SUPT EQUIP PLT | UR | 541848N 0481959E | S086372 |
| ULYANOVSK MOTOR VEHICLE + MSL SUPT EQUIP PLT | UR | 541848N 0481959E | |
| URENGOY GAS FIELD 1 | UR | 660300N 0764735E | S086703 |
| URENGOY GAS FIELD 2 | UR | 662859N 0764052E | |
| URENGOY GAS FIELD 3 | UR | 660521N 0764033E | |
| URENGOY GAS FIELD 4 | UR | 660307N 0765138E | |
| UST KUYGA MICROWAVE TOWER SITE POSS U/C | UR | 7001 N 13531 E | S086494 |
| VALGA AVTOKOLONNA 1004 | UR | 574725N 0255908E | S086718 |

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TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| VARFOLOMEYEVKA ARMY BARRACKS AL1 | UR | 441608N 1332402E | S086721 |
| VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER | UR | 430657N 1315340E | S086727 |
| VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER | UR | 430657N 1315340E | |
| VLADIVOSTOK TV TRANSMITTER STATION 1 | UR | 430704N 1315501E | |
| VOLGOGRAD MILITARY TEST FACILITY 1 | UR | 485510N 0443119E | S086372 |
| VOLGOGRAD MILITARY TEST FACILITY 3 | UR | 490006N 0443435E | |
| VOLGOGRAD STEEL + MACH PLT KRASNYY BARRIKADA | UR | 484632N 0443449E | |
| VOLOGDA AMMUNITION DEPOT DA1 | UR | 591410N 0395530E | S086838 |
| VORKUTA INTERFEROMETER SITE BOW + ARROW | UR | 673329N 0640941E | S086671 |
| VOTKINSK MISSILE ASBLY/CHECKOUT CONST SUMMARY | UR | 570224N 0540830E | S086305 |
| VOTKINSK MISSILE ASBLY/CHECKOUT FACIL SSM ACT | UR | 570224N 0540830E | S086488 |
| VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | UR | 570242N 0535903E | |
| VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | UR | 570242N 0535903E | |
| VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY | UR | 570242N 0535903E | S086305 |
| VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY | UR | 570242N 0535903E | |
| WONSAN RADIO RELAY STATION R-600 | KN | 390745N 1272430E | S086475 |
| YANGPACHING GEOTHERMAL POWER STATION | CH | 300321N 0902939E | S086492 |
| YATUNG MILITARY ACTIVITY | CH | 272915N 0885428E | S086583 |
| YATUNG MILITARY COMPOUND | CH | 272808N 0885440E | |

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TOP SECRET CHESS RUFF ZARF UMBRA

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| SUBJECT | COUN | COORD | ACCN NO. |
|---|------|------------------|----------|
| YURGA ARMY BKS SE AL1 HEAVY ARTY BRGD IDENT | UR | 554139N 0845941E | S086717 |
| | | | |
| ZADAR AIRFIELD AIRCRAFT BUNKERS | YO | 440552N 0152124E | S086567 |
| ZAGREB AIRFIELD AIRCRAFT BUNKERS | YO | 454435N 0160413E | S086647 |
| | | | |
| ZAPOROZHYE AIRCRAFT REPAIR BASE | UR | 475140N 0351750E | S086563 |
| | | | |
| ZLAToust ARMAMENT PLANT 66 CONST SUMMARY | UR | 550617N 0594223E | S086305 |

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PART II

Listing of Reports by Originator

TOP SECRET CHESS RUFF ZARF UMBRA

| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|---------------|-----------|-------------|-----------|----------|
| AF | BIIR | RFB22-0016-78 | SEP 78 | | 13 | S086571 |
| AF | ENDR | D1001-79 | 18 JAN 79 | | 05 | S086473 |
| AF | ENDR | E6547-78 | 25 OCT 78 | | 13 | S086283 |
| AF | ENDR | D6554-1-78 | 15 JAN 79 | | 13 | S086284 |
| AF | IIM | 1-79 | 08 JAN 79 | | 05 | S086592 |
| AF | IIM | 1-79 | 30 JAN 79 | | 13 | S086588 |
| AF | IIM | 2-79 | 29 JAN 79 | | 05 | S086591 |
| AF | IIM | 2-79 | 07 FEB 79 | | 13 | S086589 |
| AF | IIM | 3-79 | 31 JAN 79 | | 05 | S086590 |
| AF | PAR | 712-78 | 20 DEC 78 | | 13 | S086300 |
| AF | PAR | 735-78 | 26 DEC 78 | | 13 | S086273 |
| AF | PAR | 740-78 | 26 DEC 78 | | 13 | S086272 |
| ARMY | PIM | PIM009-79 | 26 JAN 79 | | 14 | S086475 |

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|-----|------|-------------|-----------|--|----|---------|
| CIA | INFR | IS10032-79 | 28 FEB 79 | | 05 | S086493 |
| CIA | INFR | IS10009J-79 | 25 JAN 79 | | 24 | S086311 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|-------------|-----------|-------------|-----------|----------|
| CIA | INFR | IS10010J-79 | 26 JAN 79 | | 24 | S086304 |
| CIA | INFR | IS10011K-79 | 29 JAN 79 | | 13 | S086312 |
| CIA | INFR | IS10015K-79 | 29 JAN 79 | | 13 | S086302 |
| CIA | INFR | IS10016K-79 | 30 JAN 79 | | 13 | S086309 |
| CIA | INFR | IS10018J-79 | 06 FEB 79 | | 25 | S086305 |
| CIA | INFR | IS10021K-79 | 08 FEB 79 | | 13 | S086494 |
| CIA | INFR | IS10022K-79 | 05 FEB 79 | | 13 | S086301 |
| CIA | INFR | IS10023K-79 | 05 FEB 79 | | 14 | S086303 |
| CIA | INFR | IS10024K-79 | 12 FEB 79 | | 14 | S086503 |
| CIA | INFR | IS10025K-79 | 09 FEB 79 | | 13 | S086504 |
| CIA | INFR | IS10026K-79 | 12 FEB 79 | | 14 | S086502 |
| CIA | INFR | IS10027K-79 | 14 FEB 79 | | 14 | S086496 |
| CIA | INFR | IS10031J-79 | 26 FEB 79 | | 24 | S086497 |
| CIA | INFR | IS10034J-79 | 26 FEB 79 | | 24 | S086505 |
| CIA | INFR | IS10035J-79 | 28 FEB 79 | | 25 | S086498 |
| CIA | INFR | IS10036K-79 | 01 MAR 79 | | 13 | S086495 |
| CIA | INFR | IS10037K-79 | 07 MAR 79 | | 13 | S086499 |
| CIA | INFR | IS10038K-79 | 06 MAR 79 | | 13 | S086506 |
| CIA | INFR | IS10039K-79 | 06 MAR 79 | | 13 | S086500 |
| CIA | INFR | IS10042K-79 | 08 MAR 79 | | 13 | S086492 |
| CIA | INFR | IS10045K-79 | 09 MAR 79 | | 13 | S086501 |

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|---------------|-----------|-------------|-----------|----------|
| CIA | INFR | IS10048K-79 | 12 MAR 79 | | 13 | S086491 |
| CIA | IRP | IS10006K-79 | MAR 79 | | 13 | S086703 |
| CIA | IRP | IS10008J-79 | FEB 79 | | 25 | S086444 |
| CIA | IRP | IS10013K-79 | JAN 79 | | 14 | S086375 |
| CIA | NOTE | ISSN0002J-79 | 12 FEB 79 | | 25 | S086376 |
| DIA | BIIR | RDA05-0015-78 | FEB 79 | | 14 | S086662 |
| DIA | BIIR | RDA11-0009-78 | MAR 79 | | 14 | S086481 |
| DIA | BIIR | RDA11-0021-78 | MAR 79 | | 14 | S086482 |
| DIA | IIM | 5B1-58588-78 | 01 AUG 78 | | 13 | S087052 |
| DIA | IIM | 5B1-71080-79 | 17 JAN 79 | | 14 | S086718 |
| DIA | IIM | 5B1-71398-79 | 22 MAR 79 | | 14 | S086651 |
| DIA | IIM | 5B1-71445-79 | 21 MAR 79 | | 14 | S086645 |
| DIA | IIM | 5B1-71493-79 | 04 APR 79 | | 14 | S086722 |
| DIA | IIM | 5B1-71509-79 | 02 APR 79 | | 14 | S086713 |
| DIA | IIM | 5B1-71518-79 | 22 MAR 79 | | 13 | S086650 |
| DIA | IIM | 5B1-71524-79 | 23 MAR 79 | | 13 | S086635 |
| DIA | IIM | 5B1-71559-79 | 22 MAR 79 | | 14 | S086636 |
| DIA | IIM | 5B1-71567-79 | 23 MAR 79 | | 13 | S086637 |
| DIA | IIM | 5B1-71577-79 | 20 MAR 79 | | 14 | S086562 |
| DIA | IIM | 5B1-71612-79 | 27 MAR 79 | | 14 | S086657 |
| DIA | IIM | 5B1-71614-79 | 21 MAR 79 | | 14 | S086644 |
| DIA | IIM | 5B1-71667-79 | 23 MAR 79 | | 14 | S086652 |

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|--------------|-----------|-------------|-----------|----------|
| DIA | IIM | 5B1-71669-79 | 26 MAR 79 | | 14 | S086638 |
| DIA | IIM | 5B1-71675-79 | 28 MAR 79 | | 14 | S086675 |
| DIA | IIM | 5B1-71678-79 | 04 APR 79 | | 13 | S086723 |
| DIA | IIM | 5B1-71708-79 | 03 APR 79 | | 14 | S086721 |
| DIA | IIM | 5B1-71711-79 | 29 MAR 79 | | 14 | S086717 |
| DIA | IIM | 5B1-71770-79 | 02 APR 79 | | 14 | S086724 |
| DIA | IIM | 5B1-71776-79 | 10 APR 79 | | 14 | S086840 |
| DIA | IIM | 5B1-71791-79 | 11 APR 79 | | 13 | S086863 |
| DIA | IIM | 5B1-71797-79 | 09 APR 79 | | 14 | S086841 |
| DIA | IIM | 5B1-71812-79 | 10 APR 79 | | 14 | S086839 |
| DIA | IIM | 5B1-71815-79 | 09 APR 79 | | 14 | S086837 |
| DIA | IIM | 5B1-71825-79 | 09 APR 79 | | 14 | S086838 |
| DIA | IIM | 5B1-71836-79 | 10 APR 79 | | 14 | S086842 |
| DIA | IIM | 5B1-71844-79 | 09 APR 79 | | 14 | S086836 |
| DIA | IIM | 5B3-71453-79 | 16 MAR 79 | | 13 | S086569 |
| DIA | IIM | 5B3-71460-79 | 19 MAR 79 | | 13 | S086568 |
| DIA | IIM | 5B3-71465-79 | 28 MAR 79 | | 13 | S086682 |
| DIA | IIM | 5B3-71466-79 | 28 MAR 79 | | 14 | S086680 |
| DIA | IIM | 5B3-71467-79 | 28 MAR 79 | | 14 | S086673 |
| DIA | IIM | 5B3-71468-79 | 28 MAR 79 | | 24 | S086685 |
| DIA | IIM | 5B3-71499-79 | 16 MAR 79 | | 13 | S086570 |

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|--------------|-----------|-------------|-----------|----------|
| DIA | IIM | 5B3-71505-79 | 28 MAR 79 | | 14 | S086674 |
| DIA | IIM | 5B3-71519-79 | 28 MAR 79 | | 14 | S086676 |
| DIA | IIM | 5B3-71520-79 | 20 MAR 79 | | 13 | S086563 |
| DIA | IIM | 5B3-71523-79 | 28 MAR 79 | | 14 | S086684 |
| DIA | IIM | 5B3-71560-79 | 20 MAR 79 | | 13 | S086564 |
| DIA | IIM | 5B3-71563-79 | 28 MAR 79 | | 13 | S086678 |
| DIA | IIM | 5B3-71568-78 | 21 MAR 79 | | 13 | S086643 |
| DIA | IIM | 5B3-71569-79 | 21 MAR 79 | | 13 | S086641 |
| DIA | IIM | 5B3-71570-79 | 21 MAR 79 | | 13 | S086642 |
| DIA | IIM | 5B3-71571-79 | 20 MAR 79 | | 13 | S086565 |
| DIA | IIM | 5B3-71572-79 | 19 MAR 79 | | 13 | S086567 |
| DIA | IIM | 5B3-71573-79 | 20 MAR 79 | | 13 | S086566 |
| DIA | IIM | 5B3-71574-79 | 22 MAR 79 | | 13 | S086648 |
| DIA | IIM | 5B3-71575-79 | 22 MAR 79 | | 13 | S086647 |
| DIA | IIM | 5B3-71576-79 | 22 MAR 79 | | 13 | S086646 |
| DIA | IIM | 5B3-71578-79 | 28 MAR 79 | | 14 | S086686 |
| DIA | IIM | 5B3-71581-79 | 20 MAR 79 | | 13 | S086640 |
| DIA | IIM | 5B3-71608-79 | 22 MAR 79 | | 13 | S086655 |
| DIA | IIM | 5B3-71609-79 | 20 MAR 79 | | 13 | S086639 |
| DIA | IIM | 5B3-71613-79 | 22 MAR 79 | | 13 | S086649 |
| DIA | IIM | 5B3-71620-79 | 28 MAR 79 | | 14 | S086683 |
| DIA | IIM | 5B3-71661-79 | 28 MAR 79 | | 14 | S086681 |

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|--------------|-----------|-------------|-----------|----------|
| DIA | IIM | 5B3-71666-79 | 27 MAR 79 | | 13 | S086654 |
| DIA | IIM | 5B3-71670-79 | 28 MAR 79 | | 14 | S086677 |
| DIA | IIM | 5B3-71677-79 | 26 MAR 79 | | 13 | S086653 |
| DIA | IIM | 5B3-71718-79 | 02 APR 79 | | 13 | S086715 |
| DIA | IIM | 5B3-71720-79 | 29 MAR 79 | | 13 | S086714 |
| DIA | IIM | 5B3-71721-79 | 02 APR 79 | | 13 | S086716 |
| DIA | IIM | 5B3-71760-79 | 04 APR 79 | | 13 | S086719 |
| DIA | IIM | 5B3-71778-79 | 09 APR 79 | | 14 | S086830 |
| DIA | IIM | 5B3-71782-79 | 04 APR 79 | | 13 | S086720 |
| DIA | IIM | 5B3-71783-79 | 06 APR 79 | | 13 | S086826 |
| DIA | IIM | 5B3-71792-79 | 04 APR 79 | | 13 | S086687 |
| DIA | IIM | 5B3-71796-79 | 05 APR 79 | | 13 | S086825 |
| DIA | IIM | 5B3-71799-79 | 06 APR 79 | | 13 | S086828 |
| DIA | IIM | 5B3-71801-79 | 09 APR 79 | | 13 | S086833 |
| DIA | IIM | 5B3-71802-79 | 09 APR 79 | | 13 | S086835 |
| DIA | IIM | 5B3-71806-79 | 06 APR 79 | | 13 | S086827 |
| DIA | IIM | 5B3-71811-79 | 09 APR 79 | | 13 | S086831 |
| DIA | IIM | 5B3-71817-79 | 09 APR 79 | | 13 | S086834 |
| DIA | IIM | 5B3-71822-79 | 09 APR 79 | | 13 | S086832 |
| DIA | IIM | 5B3-71823-79 | 09 APR 79 | | 13 | S086829 |
| DIA | IIM | 5B3-71829-79 | 11 APR 79 | | 13 | S086843 |

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|---------------|-----------|-------------|-----------|----------|
| DIA | NBRG | NDA06-5139-77 | 20 FEB 79 | | 05 | S086369 |
| DIA | NBRG | NDA06-5140-77 | 20 FEB 79 | | 05 | S086370 |
| DIA | NBRG | NDA06-5144-77 | 16 MAR 79 | | 05 | S086552 |
| DIA | NBRG | NDA07-5156-78 | 19 MAR 79 | | 05 | S086537 |
| DIA | NBRG | NDA07-5157-78 | 19 MAR 79 | | 05 | S086538 |
| DIA | NBRG | NDA07-5158-78 | 19 MAR 79 | | 05 | S086539 |
| DIA | NBRG | NDA07-5159-78 | 19 MAR 79 | | 05 | S086540 |
| DIA | NBRG | NDA07-5160-78 | 19 MAR 79 | | 05 | S086541 |
| DIA | NBRG | NDA07-5161-78 | 19 MAR 79 | | 05 | S086542 |
| DIA | NBRG | NDA07-5162-78 | 19 MAR 79 | | 05 | S086543 |
| DIA | NBRG | NDA07-5163-78 | 19 MAR 79 | | 05 | S086544 |
| DIA | NBRG | NDA07-5164-78 | 19 MAR 79 | | 05 | S086545 |
| DIA | NBRG | NDA07-5165-78 | 19 MAR 79 | | 05 | S086546 |
| DIA | NBRG | NDA07-5166-78 | 19 MAR 79 | | 05 | S086547 |
| DIA | NBRG | NDA07-5167-78 | 19 MAR 79 | | 05 | S086548 |
| DIA | NBRG | NDA07-5168-78 | 19 MAR 79 | | 05 | S086549 |
| DIA | NBRG | NDA07-5169-78 | 19 MAR 79 | | 05 | S086550 |
| DIA | NBRG | NDA07-5170-78 | 19 MAR 79 | | 05 | S086551 |
| DIA | NBRG | NDA07-5171-78 | 14 MAR 79 | | 05 | S086553 |
| DIA | NBRG | NDA07-5172-78 | 14 MAR 79 | | 05 | S086554 |
| DIA | NBRG | NDA07-5173-78 | 14 MAR 79 | | 05 | S086555 |
| DIA | NBRG | NDA07-5174-78 | 14 MAR 79 | | 05 | S086556 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|---------------|-----------|-------------|-----------|----------|
| DIA | NBRG | NDA07-5175-78 | 19 MAR 79 | | 05 | S086557 |
| DIA | NBRG | NDA07-5176-78 | 19 MAR 79 | | 05 | S086558 |
| DIA | NBRG | NDA07-5177-78 | 19 MAR 79 | | 05 | S086559 |
| DIA | NBRG | NDA07-5178-78 | 19 MAR 79 | | 05 | S086560 |
| DIA | NBRG | NDA07-5179-78 | 19 MAR 79 | | 05 | S086561 |
| DIA | NBRG | NDA07-5180-78 | 22 MAR 79 | | 05 | S086572 |
| DIA | NBRG | NDA07-5181-78 | 22 MAR 79 | | 05 | S086573 |
| DIA | NBRG | NDA07-5182-78 | 22 MAR 79 | | 05 | S086574 |
| DIA | NBRG | NDA07-5183-78 | 22 MAR 79 | | 05 | S086580 |
| DIA | NBRG | NDA07-5184-78 | 22 MAR 79 | | 05 | S086581 |
| DIA | NBRG | NDA07-5185-78 | 22 MAR 79 | | 05 | S086582 |
| DIA | NBRG | NDA07-5190-78 | 22 MAR 79 | | 05 | S086579 |
| DIA | NOTE | | 26 MAR 79 | | 13 | S086656 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
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| NPIC | BIIR | RCA01-0001-78 | FEB 79 | | 14 | S086333 |
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TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|---------------|--------|-------------|-----------|----------|
| NPIC | BIIR | RCA09-0003-79 | FEB 79 | | 25 | S086372 |
| NPIC | BIIR | RCA09-0005-79 | MAR 79 | | 25 | S086488 |
| NPIC | BIIR | RCA09-0008-79 | MAR 79 | | 14 | S086702 |
| NPIC | BIIR | RCA09-0049-78 | MAR 79 | | 25 | S086489 |
| NPIC | BIIR | RCA14-0008-78 | FEB 79 | | 14 | S086708 |
| NPIC | BIIR | RCA25-0001-79 | MAR 79 | | 25 | S086486 |
| NPIC | BRAD | | FEB 79 | | 14 | S086464 |
| NPIC | BRAD | | FEB 79 | | 14 | S086465 |
| NPIC | BRAD | | FEB 79 | | 14 | S086466 |
| NPIC | BRAD | | FEB 79 | | 14 | S086467 |
| NPIC | BRAD | | FEB 79 | | 14 | S086468 |
| NPIC | BRAD | | FEB 79 | | 14 | S086469 |
| NPIC | BRAD | | FEB 79 | | 14 | S086470 |
| NPIC | BRAD | | FEB 79 | | 14 | S086471 |
| NPIC | BRAD | | FEB 79 | | 14 | S086629 |
| NPIC | BRAD | | FEB 79 | | 14 | S086630 |
| NPIC | BRAD | | MAR 79 | | 14 | S086631 |
| NPIC | BRAD | | MAR 79 | | 14 | S086632 |
| NPIC | BRAD | | MAR 79 | | 14 | S086633 |
| NPIC | BRAD | | MAR 79 | | 14 | S086634 |
| NPIC | BRAD | | MAR 79 | | 14 | S086786 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|-----------|-----------|-------------|-----------|----------|
| NPIC | BRAD | | MAR 79 | | 14 | S086688 |
| NPIC | BRAD | | MAR 79 | | 14 | S086689 |
| NPIC | BRAD | | MAR 79 | | 14 | S086690 |
| NPIC | BRAD | | MAR 79 | | 14 | S086691 |
| NPIC | BRAD | | MAR 79 | | 14 | S086692 |
| NPIC | BRAD | | MAR 79 | | 14 | S086693 |
| NPIC | BRAD | | MAR 79 | | 14 | S086694 |
| NPIC | BRAD | | MAR 79 | | 14 | S086695 |
| NPIC | BRAD | | MAR 79 | | 14 | S086696 |
| NPIC | BRAD | | MAR 79 | | 14 | S086697 |
| NPIC | BRAD | | MAR 79 | | 14 | S086698 |
| NPIC | BRAD | | MAR 79 | | 14 | S086699 |
| NPIC | IIR | IIR008-79 | 14 MAR 79 | | 14 | S086664 |
| NPIC | IIR | IIR009-79 | 15 MAR 79 | | 14 | S086663 |
| NPIC | IIR | IIR010-79 | 20 MAR 79 | | 14 | S086707 |
| NPIC | IIR | IIR011-79 | 23 MAR 79 | | 14 | S086700 |
| NPIC | MEMO | | 01 FEB 79 | | 13 | S086354 |
| NPIC | MEMO | | 03 APR 79 | | 14 | S086725 |
| NPIC | MEMO | | 03 APR 79 | | 14 | S086726 |
| NPIC | MEMO | | 04 APR 79 | | 14 | S086727 |
| NPIC | MEMO | | 10 APR 79 | | 14 | S086816 |
| NPIC | MEMO | | 10 APR 79 | | 14 | S086817 |

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| ORIG | TYPE | REPT NO. | DATE | CONTROL NO. | SEC CLASS | ACCN NO. |
|------|------|-----------|--------|-------------|-----------|----------|
| NPIC | MODL | | MAR 79 | | 14 | S086665 |
| NPIC | PIR | PIR006-79 | FEB 79 | | 14 | S086449 |
| NPIC | PIR | PIR007-79 | MAR 79 | | 25 | S086671 |
| NPIC | PIR | PIR009-79 | MAR 79 | | 25 | S086445 |
| NPIC | PIR | PIR010-79 | FEB 79 | | 14 | S086448 |
| NPIC | PIR | PIR011-79 | MAR 79 | | 14 | S086705 |
| NPIC | PIR | PIR013-79 | MAR 79 | | 25 | S086701 |
| NPIC | PIR | PIR014-79 | MAR 79 | | 14 | S086672 |
| NPIC | SR | SR007-79 | FEB 79 | | 14 | S086378 |
| NPIC | SR | SR008-79 | FEB 79 | | 14 | S086447 |
| NPIC | SR | SR009-79 | FEB 79 | | 14 | S086487 |
| NPIC | SR | SR010-79 | FEB 79 | | 14 | S086446 |
| NPIC | SR | SR011-79 | MAR 79 | | 05 | S086484 |
| NPIC | SR | SR012-79 | MAR 79 | | 14 | S086670 |
| NPIC | SR | SR014-79 | MAR 79 | | 14 | S086704 |

TOP SECRET CHESS RUFF ZARF UMBRA

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PART III

Listing of Reports by General Subject

TOP SECRET CHESS RUFF ZARF UMBRA

| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 05 | AIRCRAFT, FLAGON F SU-15 | UR | | S086585 |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | MG | | S086654 |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | UR | | |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | PL | | |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | CZ | | |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | HU | | |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | BU | | |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | AL | | |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | RO | | |
| 05 | AIRFIELDS, AIRCRAFT BUNKER SUMMARY | YO | | |
| 05 | ARSENIEV AIRFRAME PLANT 116 CONST SUMMARY | UR | 440859N 1331523E | S086305 |
| 05 | ARVAYHEER HELIPORT CURL AN-26/CRATE IL-14 | MG | 462100N 1025000E | S086698 |
| 05 | BATAJNICA AIRFIELD AIRCRAFT BUNKERS | YO | 445630N 0201500E | S086643 |
| 05 | BELAYA TSEKOV AIRFIELD MOSS TU-126 | UR | 494749N 0300135E | S086843 |
| 05 | BERAT/STALIN AIRFIELD AIRCRAFT BUNKERS | AL | 404625N 0195405E | S086570 |
| 05 | BISKRA AIRFIELD HIND A MI-24/SHPG CONTS IDENT | AG | 344736N 0054417E | S086689 |
| 05 | CERKLJE AIRFIELD AIRCRAFT BUNKERS | YO | 455401N 0153155E | S086566 |
| 05 | CHENG TU AIRCRAFT ENGINE PLANT 420 | CH | 303858N 1040653E | S086489 |
| 05 | CHERVONO GLINSKOYE AIRFIELD FLAGON SU-15 | UR | 455650N 0292239E | S086720 |
| 05 | DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | 160233N 1081215E | S086690 |
| 05 | DOLINSKAYA AIRFIELD LRA SUPPORT CAPABILITY | UR | 480130N 0324154E | S086833 |
| 05 | DOLINSK/SOKOL AIRFIELD FLAGON SU-15 COUNTS | UR | 471536N 1424617E | S086828 |
| 05 | DOMNA AIRFIELD FLOGGER MIG-23 | UR | 515500N 1130718E | S086714 |
| 05 | ENGELS/LEBEDOVO AIRFIELD LRA SUPPORT CPBL | UR | 511712N 0461355E | S086832 |

TOP SECRET CHESS RUFF ZARF UMBRA

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 05 | GORODOK AIRFIELD NE LRA AIRCRAFT SUPPORT CPBL | UR | 494935N 0234130E | S086687 |
| 05 | GOSTOMEL AIRFIELD LRA AIRCRAFT SUPPORT CPBL | UR | 503601N 0301143E | S086825 |
| 05 | H-3 AIRFIELD CONSTRUCTION ACTIVITY | IZ | 325616N 0394444E | S086672 |
| 05 | KALININO AIRFIELD LRA SUPPORT CAPABILITY | UR | 410630N 0441600E | S086829 |
| 05 | KAUNAS AIRCRAFT REPAIR BASE | UR | 545240N 0235500E | S086564 |
| 05 | KAZAN AIRFRAME PLANT A387 | UR | 554801N 0490251E | S086702 |
| 05 | KIPELOVO AIRFIELD | UR | 591124N 0390740E | S086662 |
| 05 | KIPELOVO AIRFIELD PETROLEUM PRODUCTS STGE RSV | UR | 591329N 0390947E | |
| 05 | KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY | UR | 583834N 0493709E | S086305 |
| 05 | KOCHUBEYEVKA AIRFIELD NO SIGNIFICANT CHANGE | UR | 494444N 0350132E | S086831 |
| 05 | LIUCHOU AIRFIELD BEAGLE IL-28/BAT TU-2 DPL | CH | 241638N 1092304E | S086464 |
| 05 | MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY | UR | 555544N 0373027E | S086305 |
| 05 | NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | 283752N 1155526E | S086482 |
| 05 | OBRVA AIRFIELD AIRCRAFT BUNKERS | YO | 434915N 0203509E | S086648 |
| 05 | OKTYABRSKOYE AIRFIELD PRE-FLIGHT ACTIVITY | UR | 451930N 0340623E | S086632 |
| 05 | OMSK AIRFRAME PLANT 166 CONSTRUCTION SUMMARY | UR | 545759N 0732748E | S086305 |
| 05 | ONDANGUA AIRFIELD AIRCRAFT INCREASE | WA | 175300S 0155800E | S086695 |
| 05 | PETROPAVLOVSK/YELIZOVO AIRFIELD COOT MODIFIED | UR | 531017N 1582711E | S086505 |
| 05 | POCHEP AIRFIELD LRA AIRCRAFT SUPPORT CPBL | UR | 525555N 0332400E | S086827 |
| 05 | PULA AIRFIELD AIRCRAFT BUNKERS | YO | 445340N 0135520E | S086641 |

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| 05 | RIGA AIRCRAFT REPAIR BASE | UR | 565832N 0240351E | S086568 |
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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 05 | RIGA AIRFIELD WEST MOSS TU-126 SEARCH | UR | 565525N 0235817E | S086834 |
| 05 | ROSTOV AIRCRAFT REPAIR BASE | UR | 471546N 0394846E | S086646 |
| 05 | SHAIBAH AIRFIELD HIND D MI-24 IDENTIFICATION | IZ | 302535N 0473842E | S086466 |
| 05 | SOKHONDO AIRFIELD | UR | 515040N 1122850E | S086354 |
| 05 | TALACHIH AIRFIELD FANTAN A F-9 IDENTIFICATION | CH | 363740N 1050004E | S086633 |
| 05 | TASHKENT AIRFIELD CANDID IL-76 LIBYAN/IRAQI | UR | 411846N 0692331E | S086691 |
| 05 | TETE CHINGOZI AIRFIELD COMBAT DAMAGE | MZ | 160612S 0333820E | S086467 |
| 05 | TITOGRAD INTERNATIONAL AIRFIELD AIRCRAFT BKRS | YO | 422130N 0191507E | S086642 |
| 05 | TUZLA AIRFIELD AIRCRAFT BUNKERS | YO | 442730N 0184330E | S086565 |
| 05 | ZADAR AIRFIELD AIRCRAFT BUNKERS | YO | 440552N 0152124E | S086567 |
| 05 | ZAGREB AIRFIELD AIRCRAFT BUNKERS | YO | 454435N 0160413E | S086647 |
| 05 | ZAPOROZHYE AIRCRAFT REPAIR BASE | UR | 475140N 0351750E | S086563 |

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|----|---|----|----------------|---------|
| 10 | GOLERKANY CIVIL DEFENSE GOVERNMENT RELOC SITE | UR | 4719 N 02905 E | S086376 |
| 10 | KAZACHYE U/I CONSTRUCTION | UR | 7044 N 13610 E | S086494 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 15 | PROJECT HAT TRICK | CH | | S086583 |
| 25 | ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I | UR | 430910N 0762330E | S086837 |
| 25 | ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I | UR | 431211N 0763603E | S086836 |
| 25 | ANISIMOVO RADIO RELAY STATION NEW | UR | 591000N 0350930E | S086726 |
| 25 | CHAGODA RADIO RELAY STATION NEW | UR | 591054N 0352005E | |
| 25 | CONSTANTA/MIHAIL KOGALNICEANU AFLD RSBN-4N | RO | 442131N 0282920E | S086589 |
| 25 | DEPUTATSKIY TROPOSCATTER/MICROWAVE TOWER POSS | UR | 6912 N 13947 E | S086494 |
| 25 | ELECTRONICS, BOW + ARROW INTERFEROMETER MODIF | UR | | S086671 |
| 25 | ELECTRONICS, ESM INTERCEPT SYSTEM NEW POSS | UR | | S086664 |
| 25 | ELECTRONICS, ICBM TYPE 3H GUIDANCE RLTD FACS | UR | | S086273 |
| 25 | ELECTRONICS, RADAR NETWORK COASTAL/NW BORDER | AG | | S086498 |
| 25 | ELECTRONICS, RADIO RELAY STATIONS NEW TYPE | UR | | S086378 |
| 25 | ELECTRONICS, 64-ELEMENT TLMTRY ANTS MSL ASSOC | UR | | S086448 |
| 25 | EMBA MTC LAUNCH CPLX SPOON REST D RDR VAN MTD | UR | 483103N 0580207E | S086477 |
| 25 | KAPUSTIN YAR MTC RANGEHEAD TRKG FAC BOW/ARROW | UR | 483858N 0454538E | S086671 |
| 25 | KIPELOVO AIRFIELD GCA SITE | UR | 591124N 0390740E | S086662 |
| 25 | KIPELOVO NAVAL AVIATION COMD POST BKR SOUTH | UR | 591130N 0390810E | |
| 25 | KIPELOVO NAVAL AVIATION COMMAND POST BKR NE | UR | 591414N 0391138E | |
| 25 | KIRISHI RADIO RELAY STATION | UR | 592630N 0320040E | S086726 |
| 25 | KLINETS RADIO RELAY STATION NEW | UR | 592900N 0325400E | |
| 25 | KRASNY BOR RADIO RELAY STATION NEW | UR | 594025N 0304210E | |
| 25 | KULAR COMMUNICATIONS FACILITY SEARCH | UR | 7038 N 13420 E | S086494 |
| 25 | LIEPAJA AIRFIELD TALL KING AW RADAR ELCT O/B | UR | 562750N 0210120E | S086474 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 25 | LYUBAN RADIO RELAY STATION NORTH NEW | UR | 592150N 0311450E | S086726 |
| 25 | MAKAT ASM IMPACT AREA B RADAR TGTS/CRTRS NEW | UR | 480600N 0534400E | S086506 |
| 25 | MILOVICE SA-6 TRNG SITE A02 FLAT FACE MODIF | CZ | 501530N 0145335E | S086588 |
| 25 | PERM ICBM COMPLEX HQ COMSAT STATION ANTENNAS | UR | 574550N 0561125E | S086816 |
| 25 | PLESETSK MTC RANGEHEAD TRACKING FAC BOW/ARROW | UR | 624645N 0402010E | S086671 |
| 25 | SARY SHAGAN MTC PHASED-ARRAY RADAR FAC NORTH | UR | 463600N 0743000E | S086705 |
| 25 | SAVELYEVO RADIO RELAY STATION | UR | 560803N 0370420E | S086725 |
| 25 | SVERDLOVSK AIR DEFENSE COMMAND POST | UR | 564215N 0602340E | S086817 |
| 25 | TIKSI TROPOSCATTER STATION 19 METER DISH ANTS | UR | 713806N 1284509E | S086494 |
| 25 | TYURATAM MTC RANGEHEAD TRACKING FAC BOW/ARROW | UR | 454230N 0632020E | S086671 |
| 25 | TYURATAM MTC TRACKING FACILITY 5 BOW + ARROW | UR | 515333N 0672113E | |
| 25 | UST KUYGA MICROWAVE TOWER SITE POSS U/C | UR | 7001 N 13531 E | S086494 |
| 25 | VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER | UR | 430657N 1315340E | S086727 |
| 25 | VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER | UR | 430657N 1315340E | |
| 25 | VLADIVOSTOK TV TRANSMITTER STATION 1 | UR | 430704N 1315501E | |
| 25 | VORKUTA INTERFEROMETER SITE BOW + ARROW | UR | 673329N 0640941E | S086671 |
| 25 | WONSAN RADIO RELAY STATION R-600 | KN | 390745N 1272430E | S086475 |
| 30 | ASTRAKHAN GAS FIELD DEVELOPMENT | UR | 4621 N 04803 E | S086495 |
| 30 | INDUSTRY, PETROLEUM REFINING DEVELOPMENTS | UR | | S086376 |
| 30 | IVANOVO CRANE PLANT | UR | 565819N 0405715E | S086372 |
| 30 | KOSTROMA CONSTRUCTION + GM SUPPORT EQUIP PLT | UR | 574534N 0405333E | |

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TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 30 | KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | 562208N 0411934E | S086305 |
| 30 | LENINGRAD HEAVY EQUIP PLANT 185 FAB BLDG NEW | UR | 595302N 0301456E | S086849 |
| 30 | LENINGRAD INSTRUMENT STATE PLANT LIZ | UR | 595613N 0302319E | S086637 |
| 30 | PELINDABA STONE QUARRY EXPLOSIONS | SF | 2549 N 02755 E | S086503 |
| 30 | RUBTSOVSK TRACTOR PLANT ALTA 1 | UR | 513222N 0811237E | S086372 |
| 30 | URENGOY GAS FIELD 1 | UR | 660300N 0764735E | S086703 |
| 30 | URENGOY GAS FIELD 2 | UR | 662859N 0764052E | |
| 30 | URENGOY GAS FIELD 3 | UR | 660521N 0764033E | |
| 30 | URENGOY GAS FIELD 4 | UR | 660307N 0765138E | |

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| 30 | VOLGOGRAD STEEL + MACH PLT KRASNYY BARRIKADA | UR | 484632N 0443449E | S086372 |
| 30 | VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | UR | 570242N 0535903E | S086488 |
| 30 | VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY | UR | 570242N 0535903E | S086305 |
| 30 | YANGPACHING GEOTHERMAL POWER STATION | CH | 300321N 0902939E | S086492 |
| 35 | ADEN AMMUNITION STGE + TEST AREA M-1977 MRL | YS | 124745N 0450155E | S086707 |
| 35 | ADEN AMMUNITION STGE + TEST AREA M-1977 MRL | YS | 124745N 0450155E | |
| 35 | ARVAYHEER ARMY BKS AL1 RSV EQUIP ACTIVATED | MG | 462200N 1024800E | S086698 |

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| 35 | BOBRUYSK ORDNANCE DEPOT NNE D01 | UR | 531210N 0291630E | S086841 |
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| 35 | BREST ENGINEER STORAGE FACILITY | UR | 520540N 0233815E | S086724 |
| 35 | BRONNITSY ARMORED VEHICLE RESEARCH FACILITY | UR | 552651N 0381427E | S086372 |
| 35 | BRONNITSY MILITARY VEHICLE TEST AREA | UR | 552700N 0380800E | |

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TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 35 | CHIANGTZU ARMY BARRACKS | CH | 285500N 0893620E | S086583 |
| 35 | CHIANGTZU ARMY BARRACKS NW | CH | 285702N 0893130E | |
| 35 | CHICHIHAERH ARMS + AMMUNITION PARTS PLANT 127 | CH | 472003N 1235832E | S086481 |
| 35 | CHINCHOU MILITARY AREA 2 | CH | 41n7 N 12111 E | S086553 |
| 35 | CHINCHOU MILITARY BARRACKS AL5 + HQ ARTY DIV | CH | 410744N 1211059E | S086554 |
| 35 | CHITA ARMY BARRACKS NORTH AL2 + TRNG AREA 2 | UR | 520505N 1132920E | S086651 |
| 35 | CHITA ARMY BARRACKS NORTH AL2 + TRNG AREA 2 | UR | 520505N 1132920E | |
| 35 | CHUANTU MILITARY BARRACKS AREA | CH | 282620N 0893530E | S086583 |
| 35 | CHUEH MU ARMY BARRACKS/DEPOT/SUPPORT AREA | CH | 294028N 0942040E | |
| 35 | CHUEH MU ARMY BARRACKS/DEPOT/SUPPORT AREA | CH | 294028N 0942040E | |
| 35 | CHUEHNEIHSI MILITARY BARRACKS AREA | CH | 284220N 0893825E | |
| 35 | CHUSHUI AAA COMPLEX | CH | 2919 N 09014 E | |
| 35 | DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | 160233N 1081215E | S086690 |
| 35 | DZEM ARMY BARRACKS AL1 | CH | 294749N 0935803E | S086583 |
| 35 | DZEM ARMY BARRACKS AL2 | CH | 294845N 0935010E | |
| 35 | FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC | SF | 340420S 0184530E | S086375 |
| 35 | GDANSK MILITARY BARRACKS | PL | 542230N 0184027E | S086644 |
| 35 | GORKIY ARMAMENT PLT NOVOYE SORMOVO STALIN 92 | UR | 561936N 0435321E | S086372 |
| 35 | HAICHENG ARMY BARRACKS NNE AL7 | CH | 405148N 1224519E | S086574 |
| 35 | HAILUNG ARMY BARRACKS WEST AL3 | CH | 423847N 1254839E | S086560 |
| 35 | HEISHAN ARMY BARRACKS AL1 | CH | 414115N 1220640E | S086556 |
| 35 | HOCHING ARMY BARRACKS AL2 ARMOR DPL NEW | CH | 422050N 0862245E | S086693 |
| 35 | HSIMIAO ARMY BARRACKS AL1 | CH | 410120N 1001312E | S086538 |
| 35 | HSIMIAO ARMY BARRACKS AL2 | CH | 410025N 1001310E | S086540 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 35 | HUINAN ARMY BARRACKS WEST AL1 | CH | 424103N 1255943E | S086559 |
| 35 | IVANO FRANKOVSK ARMY BARRACKS AL5 | UR | 485415N 0244005E | S086853 |
| 35 | JENCHINGKANG STRONGPOINT 1 | CH | 272608N 0885426E | S086583 |
| 35 | JENCHINGKANG STRONGPOINT 2 | CH | 272548N 0885524E | |
| 35 | JHKTSE ARMY BARRACKS AL2 | CH | 291456N 0885247E | |
| 35 | JHKTSE ARMY BARRACKS AL3 | CH | 291540N 0885205E | |
| 35 | JHKTSE ARMY BARRACKS AL4 | CH | 291900N 0890210E | |
| 35 | JHKTSE MILITARY AREA EAST | CH | 292001N 0885803E | |
| 35 | KANGKO MILITARY BARRACKS AREA | CH | 291922N 0942330E | |
| 35 | KHMELNITSKIY ARMY TRAINING AREA SE | UR | 492330N 0270200E | S086844 |
| 35 | KOTA ARMY BARRACKS AL1 | CH | 295133N 0954557E | S086583 |
| 35 | KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | 562208N 0411934E | S086305 |
| 35 | KRASNOYARSK ARMS PLT VOROSHILOV CONST SUMMARY | UR | 560054N 0925913E | |
| 35 | KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT | UR | 560236N 0930237E | S086681 |
| 35 | KUNGKA AAA SITE | CH | 2917 N 09101 E | S086583 |
| 35 | KUNGKA MILITARY VEHICLE MAINTENANCE/STGE DPO | CH | 291647N 0910108E | |
| 35 | KUNGPUCHIANGTA ARMY BARRACKS AL1 | CH | 295310N 0931425E | |
| 35 | LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | 2150 N 10645 F | S086692 |
| 35 | LASA AAA SITES | CH | 2939 N 09105 E | S086583 |
| 35 | LASA ARMY BARRACKS SOUTH AL2 | CH | 293755N 0910830E | |
| 35 | LASA ARMY BARRACKS WEST AL5 | CH | 293827N 0910141E | |
| 35 | LASA ARMY MOTOR TRANSPORT BARRACKS + STGE AL7 | CH | 293912N 0910312E | |
| 35 | LASA ARMY MOTOR TRANSPORT BARRACKS + STGE AL7 | CH | 293912N 0910312E | |
| 35 | LASA MILITARY BARRACKS AL4 + HQ TIBET MD | CH | 293846N 0910740E | |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 35 | LIAOYANG ARMY BARRACKS AL2 + HQ ARTILLERY DIV | CH | 411443N 1230827E | S086573 |
| 35 | LIAOYANG MILITARY AREA 1 | CH | 4116 N 12310 E | S086572 |
| 35 | LINCHIH ARMY BARRACKS AL1 | CH | 292951N 0942727E | S086583 |
| 35 | LINCHIH ARMY BARRACKS AL2 | CH | 293353N 0942906E | |
| 35 | LOMONOSOV LASER WPNS FAC FAN-SHAPED RANGE U/C | UR | 595412N 0290118E | S086446 |
| 35 | MANDALGOVI MILITARY INSTALLATION MRD MBLZTN | MG | 454459N 1061443E | S086697 |
| 35 | MAYKOP ARMY BKS SOUTH MRD SECOND GENERATION | UR | 443428N 0400732E | S086656 |
| 35 | MBARARA ARMY BARRACKS BATTLE DAMAGE | UG | 003430S 0304140E | S086786 |
| 35 | MIENYANG MILITARY BARRACKS + STORAGE AREA | CH | 313000N 1044535E | S086584 |
| 35 | MIENYANG MILITARY BARRACKS + STORAGE AREA | CH | 313000N 1044535E | |
| 35 | MILIN ARMY BARRACKS AL2 | CH | 291120N 0940322E | S086583 |
| 35 | MILITARY, ACTIVITY SUMMARY CHENG TU MR | CH | | |
| 35 | MILITARY, ACTIVITY SUMMARY SOUTH YEMEN FORCES | YE | | S086634 |
| 35 | MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER | YE | | S086491 |
| 35 | MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER | YE | | S086499 |
| 35 | MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER | YE | | S086500 |
| 35 | MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER | YE | | S086501 |
| 35 | MILITARY, ARMORED FORCES REORGANIZATION | IZ | | S086497 |
| 35 | MILITARY, ARMS + TECH ASSISTANCE NORTH KOREAN | LY | | S086376 |
| 35 | MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086470 |
| 35 | MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086469 |
| 35 | MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086468 |
| 35 | MILITARY, CHINA-VIETNAM BORDER ACTIVITY | CH | | S086694 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 35 | MILITARY, CHINA/VIETNAM BORDER ACTIVITY | CH | | S086692 |
| 35 | MILITARY, GAZ-66 SMOKE GENERATING VEHICLE | UR | | S086562 |
| 35 | MILITARY, GROUND FORCES WESTERN MD | EG | | S086311 |
| 35 | MILITARY, MOTORIZED RIFLE BNS BTR-60PB COUNTS | UR | | S086376 |
| 35 | MILITARY, M-1977 MRL RESUPPLY VEHICLE | UR | | S086857 |
| 35 | MILITARY, M-1977 SELF-PROPELLED GUN NEW | KN | | S086472 |
| 35 | MILITARY, M-1977 240MM SELF-PROPELLED MORTAR | UR | | S086857 |
| 35 | MILITARY, RAIL TRANSLOADING FACILITIES | PL | | S086484 |
| 35 | MILITARY, SIGNAL REGIMENTS DPL/ORG/EQUIPMENT | UR | | S086444 |
| 35 | MILITARY, T-64 MEDIUM TANK | UR | | S086850 |
| 35 | MILITARY, VIETNAM-CHINA BORDER ACTIVITY | VM | | S086470 |
| 35 | MILITARY, VIETNAM-CHINA BORDER ACTIVITY | VM | | S086469 |
| 35 | MILITARY, VIETNAM-CHINA BORDER ACTIVITY | VM | | S086468 |
| 35 | MILITARY, VIETNAM-CHINA BORDER ACTIVITY | VM | | S086694 |
| 35 | MILITARY, VIETNAM/CHINA BORDER ACTIVITY | VM | | S086692 |
| 35 | MOSKVA ARMY BARRACKS AL42 + SIGNAL REGIMENT | UR | 555222N 0372840E | S086840 |
| 35 | NIENSHENG MILITARY CONVOYS | CH | 2152 N 10705 E | S086692 |
| 35 | NOVOCHERKASSK ARMY BARRACKS AL9 | UR | 472430N 0400625E | S086859 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 35 | NOVOGRUDOK ARMY BARRACKS AL1 | UR | 533458N 0254745E | S087000 |
| 35 | OCHINACHI DEFENSIVE STRONGPOINT | CH | 422040N 1011400E | S086551 |
| 35 | OLANG MILITARY BARRACKS AREA | CH | 290820N 0934218E | S086583 |
| 35 | OSIPOVICH ARMY BKS SOUTH AL2 M-1977 MRL DPL | UR | 531727N 0283837E | S086465 |

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| 35 | PAICHENG ARMY BARRACKS NORTH AL5 | CH | 453910N 1225015E | S086582 |
| 35 | PANGTA ENGINEER BARRACKS AL1 | CH | 303338N 0970638E | S086583 |
| 35 | PANSHIH ARMY BARRACKS SE AL1 + HQ ARTY DIV | CH | 425604N 1260424E | S086558 |
| 35 | PANSHIH ARMY BARRACKS SOUTH AL2 | CH | 425150N 1260250E | S086561 |
| 35 | PANSHIH MILITARY AREA 1 | CH | 4256 N 12604 E | S086557 |

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|----|---|----|------------------|---------|
| 35 | PEICHEN ARMY BARRACKS AL1 | CH | 413607N 1214655E | S086555 |
| 35 | PERVOMAYSK MILITARY INSTALLATION | UR | 480220N 0305110E | S086856 |
| 35 | PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV | UR | 595914N 0305935E | S086684 |
| 35 | PIPITANG MILITARY STORAGE AREA | CH | 272710N 0885500E | S086583 |
| 35 | PIPITANG STRONGPOINT | CH | 272555N 0885525E | |
| 35 | RANGAO ARMY BARRACKS AL1 | CH | 294445N 0960650E | |
| 35 | ROVNO MILITARY SUPPLY DEPOT NORTH D01 | UR | 503749N 0261437E | S086645 |

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| 35 | SHUANGCHENG TZU ARMY BARRACKS AL1 | CH | 410650N 1001650E | S086541 |
| 35 | SHUANGCHENG TZU ARMY BARRACKS AL2 | CH | 410631N 1002025E | S086542 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 35 | SHUANGCHENG TZU DEFENSIVE STRONGPOINT | CH | 411613N 1002013E | S086543 |
| 35 | SHUANGCHENG TZU MILITARY AREA | CH | 4130 N 10030 E | S086537 |
| 35 | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 1 | CH | 421851N 1010654E | S086550 |
| 35 | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 2 | CH | 415310N 1003327E | S086546 |
| 35 | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 3 | CH | 415610N 1010140E | S086547 |
| 35 | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 4 | CH | 414323N 1002727E | S086545 |
| 35 | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 5 | CH | 414557N 1004208E | S086544 |
| 35 | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 6 | CH | 420703N 1005405E | S086549 |
| 35 | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 8 | CH | 402546N 0995046E | S086539 |
| 35 | SHUANGCHENG TZU WEAPONS POSITIONS | CH | 420318N 1012212E | S086548 |
| 35 | SLAVUTA AMMUNITION DEPOT WEST DA1 | UR | 501827N 0264902E | S086657 |

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| 35 | SSUPING ARMY BARRACKS EAST AL5 TANK TRSHPM T | CH | 430656N 1244257E | S086471 |
| 35 | SSUPING MILITARY AREA 1 | CH | 4310 N 12420 E | S086579 |
| 35 | SSUPING MILITARY BKS AL1/HQ ANTITANK ARTY DIV | CH | 431024N 1242105E | S086580 |
| 35 | STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850 | UR | 534200N 0555807E | S086677 |
| 35 | SUMBER SUMA MILITARY BKS AL1 MT-LB SAM TEL | MG | 462048N 1082410E | S086688 |
| 35 | SZOMBATHELY AMMUNITION DEPOT KOSZEG 501 | HU | 472008N 0163550E | S087002 |
| 35 | TETE CHINGOZI AIRFIELD COMBAT DAMAGE | MZ | 160612S 0333820E | S086467 |

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| 35 | TSUMUTSUNG ARMY BARRACKS NW + HQ DIVISION | CH | 294543N 0941521E | S086583 |
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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|--|------|------------------|----------|
| 35 | TUNG LIAO ARMY BARRACKS SW AL7 | CH | 433520N 1221415E | S086581 |
| 35 | ULAAN UUL MILITARY TRNG AREA JOINT TRNG EXER | MG | 443051N 1111151E | S086696 |
| 35 | ULAN UDE MILITARY BARRACKS AL3 REGT ABSENT | UR | 515111N 1075329E | S086699 |
| 35 | VARFOLOMEYEVKA ARMY BARRACKS AL1 | UR | 441608N 1332402E | S086721 |
| 35 | VOLGOGRAD MILITARY TEST FACILITY 1 | UR | 485510N 0443119E | S086372 |
| 35 | VOLGOGRAD MILITARY TEST FACILITY 3 | UR | 490006N 0443435E | S086372 |
| 35 | VOLOGDA AMMUNITION DEPOT DA1 | UR | 591410N 0395530E | S086838 |

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| 35 | YATUNG MILITARY ACTIVITY | CH | 272915N 0885428E | S086583 |
| 35 | YATUNG MILITARY COMPOUND | CH | 272808N 0885440E | S086583 |
| 35 | YURGA ARMY BKS SE AL1 HEAVY ARTY BRGD IDENT | UR | 554139N 0845941E | S086717 |
| 35 | ZLATOUST ARMAMENT PLANT 66 CONST SUMMARY | UR | 550617N 0594223E | S086305 |

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| 40 | BRYANSK GUIDED MISSILE SUPPORT EQUIP PLANT 2 | UR | 531713N 0342352E | S086372 |
| 40 | BRYANSK ROAD MACHINERY + GM SUPT EQUIP PLT 1 | UR | 531502N 0342419E | S086372 |
| 40 | DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | 160233N 1081215E | S086690 |
| 40 | DNEPROPETROVSK MISSILE DPC CONST SUMMARY | UR | 482601N 0345828E | S086305 |
| 40 | DNEPROPETROVSK MISSILE DPC SSM ACTIVITY | UR | 482601N 0345828E | S086488 |
| 40 | FAUSTOVO AEROSPACE R+D FACILITY | UR | 552746N 0383143E | S086272 |
| 40 | FAUSTOVO AEROSPACE R+D FACILITY SSM ACTIVITY | UR | 552746N 0383143E | S086488 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 40 | FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC | SF | 340420S 0184530E | S086375 |
| 40 | IVANKOVSKIY GUIDED MISSILE PLT CONST SUMMARY | UR | 564521N 0370700E | S086305 |
| 40 | KAMENSK SHAKHTINSKIY SOLID MOTOR PROD PLANT | UR | 481750N 0401049E | S086678 |
| 40 | KEMEROVO SOLID MOTOR PROD PLANT NUC RAILCARS | UR | 552458N 0855832E | S086683 |
| 40 | KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY | UR | 583834N 0493709E | S086305 |
| 40 | KOSTROMA CONSTRUCTION + GM SUPPORT EQUIP PLT | UR | 574534N 0405333E | S086372 |
| 40 | KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | 562208N 0411934E | S086305 |
| 40 | KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT | UR | 560236N 0930237E | S086681 |
| 40 | LENINGRAD GUIDED MSL PLANT 458 CONST SUMMARY | UR | 595934N 0301721E | S086305 |
| 40 | LIENKENGWANG IRBM SITE 4 | CH | 300202N 1173634E | S086333 |
| 40 | LIENKENGWANG IRBM SITE 5 | CH | 300636N 1173433E | |
| 40 | LIENKENGWANG IRBM SITE 6 | CH | 300846N 1173421E | |
| 40 | LIENKENGWANG IRBM SITE 8 | CH | 300446N 1173443E | |
| 40 | MARY SAM SUPPORT FACILITY 2 | UR | 373510N 0615130E | S086713 |
| 40 | MARY SAM SUPPORT FACILITY 3 SA-6 ACTIVITY | UR | 373500N 0615130E | |
| 40 | MINSK MOTOR VEH + GM EQUIP PLANT VEH TEST FAC | UR | 535131N 0273931E | S086445 |
| 40 | MINSK MOTOR VEHICLE + GM SUPPORT EQUIP PLANT | UR | 535131N 0273931E | S086372 |
| 40 | MISSILES, AAM COMPONENTS/HARDWARE | UR | | S086272 |
| 40 | MISSILES, AS-4 + VARIANT | UR | | S086473 |
| 40 | MISSILES, CRUISE MISSILE CRATE PRODUCTION | CH | | S086482 |
| 40 | MISSILES, CSS-X-4 1ST STAGE TRANSFER CAR B2 | CH | | S086571 |
| 40 | MISSILES, CSS-X-4 1ST STAGE TRANSPORTER C1 | CH | | |
| 40 | MISSILES, CSS-X-4 1ST STAGE TRANSPORTER E | CH | | |
| 40 | MISSILES, CSS-X-4 2ND STAGE TRANSFER CAR B3 | CH | | |
| 40 | MISSILES, CSS-X-4 2ND STAGE TRANSPORTER C2 | CH | | |
| 40 | MISSILES, CSS-X-4 2ND STAGE TRANSPORTER F | CH | | |
| 40 | MISSILES, CSS-X-4/CSL-2 PAYLOAD TRANSPORTER | CH | | |

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|---------|---|------|-------|----------|
| 40 | MISSILES, CSS-1 A-FRAME CRANE | CH | | |
| 40 | MISSILES, CSS-1 LAUNCH STAND TRAILER | CH | | |
| 40 | MISSILES, CSS-1 LAUNCH STAND TRUCK | CH | | |
| 40 | MISSILES, CSS-1 TRANSPORTER ROAD TYPE A1 | CH | | |
| 40 | MISSILES, CSS-1 TRANSPORTER/ERECTOR | CH | | |
| 40 | MISSILES, CSS-1/CSS-2 CHERRY PICKER | CH | | |
| 40 | MISSILES, CSS-1/CSS-2 CRANE TRUCK MOUNTED | CH | | |
| 40 | MISSILES, CSS-1/CSS-2 TRANSFER RAILCAR B1 | CH | | |
| 40 | MISSILES, CSS-1/CSS-2 TRANSPORTER RAIL TYPE A | CH | | |
| 40 | MISSILES, CSS-2 CHECKOUT SUPPORT VEHICLE POSS | CH | | |
| 40 | MISSILES, CSS-2 CONTROL/ALIGNMENT VAN | CH | | |
| 40 | MISSILES, CSS-2 LAUNCH STAND TRANSPORTER | CH | | |
| 40 | MISSILES, CSS-2 MOBILE LIGHTNING ARRESTER | CH | | |
| 40 | MISSILES, CSS-2 PROPELLANT VEHICLE 1 TYPE K | CH | | |
| 40 | MISSILES, CSS-2 PROPELLANT VEHICLE 2 TYPE L | CH | | |
| 40 | MISSILES, CSS-2 TRANSPORTER/ERECTOR 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 2 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 FUEL TRANSPORTER 2 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 2 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 OXIDIZER TRANSFER TRK 2 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 2 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 OXIDIZER TRANSPORTER 2 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 TRANSPORTER 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 TRANSPORTER 1 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 TRANSPORTER 2 | CH | | |
| 40 | MISSILES, CSS-2/CSS-3 TRANSPORTER 2 | CH | | |
| 40 | MISSILES, CSS-3 2ND STAGE TRANSPORTER | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE A | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE B | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE C1 | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE C2 | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE D | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE F | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE G | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE H | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE I | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE J | CH | | |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 40 | MISSILES, PROPELLANT RAILCAR TYPE K | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE L | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE M | CH | | |
| 40 | MISSILES, PROPELLANT RAILCAR TYPE N | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE A | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE B | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE C | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE D | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE E | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE F | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE M | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE N | CH | | |
| 40 | MISSILES, PROPELLANT VEHICLE TYPE O | CH | | |
| 40 | MISSILES, SA-8 CANISTER | UR | | S086586 |
| 40 | MISSILES, SA-8 TRANSLOADER | UR | | S086586 |
| 40 | MISSILES, SRBM TRANSPORTER/ERECTOR TYPE C | CH | | S086571 |
| 40 | MISSILES, SSM DEVELOPMENTS R+D/PROD INSTLS | UR | | S086488 |
| 40 | MISSILES, SSM GANTRY CRANE | CH | | S086571 |
| 40 | MISSILES, SSM GROUND SUPPORT EQUIPMENT | CH | | |
| 40 | MISSILES, SS-11 COMPLEXES ACTIVITY SUMMARY | UR | | S086851 |
| 40 | MISSILES, SS-11 PROPELLANT TRANSFER FAC MODIF | UR | | S086284 |
| 40 | MISSILES, SS-11/SS-17 COMPLEXES ACT SUMMARY | UR | | S086851 |
| 40 | MISSILES, SS-11/SS-19 COMPLEXES ACT SUMMARY | UR | | |
| 40 | MISSILES, SS-9/SS-18 COMPLEXES ACT SUMMARY | UR | | |
| 40 | MISSILES, TRANSPORTER RAIL TYPE D | CH | | S086571 |
| 40 | MISSILES, TRANSPORTER RAIL TYPE E | CH | | |
| 40 | MISSILES, TRANSPORTER ROAD TYPE B | CH | | |
| 40 | MISSILES, TRANSPORTER ROAD TYPE G | CH | | |
| 40 | MOSKVA GUIDED MISSILE PLANT 41 CONST SUMMARY | UR | 554939N 0373023E | S086305 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 40 | MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV | UR | 554547N 0375209E | S086272 |
| 40 | MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV | UR | 554547N 0375209E | |
| 40 | MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | UR | 554547N 0375209E | S086488 |
| 40 | MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | UR | 554547N 0375209E | |
| 40 | MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY | UR | 555544N 0373027E | S086305 |
| 40 | MOSKVA MISSILE ASSOCIATED INSTL SILO CONV | UR | 551143N 0363735E | S086487 |
| 40 | MOSKVA MISSILE PROD PLT FILI 23 CONST SUMMARY | UR | 554530N 0372928E | S086305 |
| 40 | MOSKVA MISSILE PRODUCTION PLANT FILI 23 | UR | 554530N 0372928E | S086272 |
| 40 | MOSKVA MISSILE PRODUCTION PLT FILI 23 SSM ACT | UR | 554530N 0372928E | S086488 |
| 40 | MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | UR | 555130N 0373630E | |
| 40 | NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | 283752N 1155526E | S086482 |
| 40 | NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | 283752N 1155526E | |
| 40 | NENOKSA NAVAL MTC LAUNCH FAC D ERECTOR/LOADER | UR | 643835N 0391220E | S086629 |
| 40 | NUCLEAR, RAILCARS SOLID MOTOR PROD PLTS ASSOC | UR | | S086830 |
| 40 | OREL ROAD MACHINERY/MISSILE SUPT EQUIP PLANT | UR | 525520N 0360132E | S086372 |
| 40 | ORENBURG GUIDED MISSILE PLANT 47 SSM ACTIVITY | UR | 514818N 0550802E | S086488 |
| 40 | ORENBURG GUIDED MISSILE PLT 47 CONST SUMMARY | UR | 514818N 0550802E | S086305 |
| 40 | PAVLOGRAD SOLID MOTOR ASBLY + TEST SUPT FACIL | UR | 482658N 0355723E | S086685 |
| 40 | PAVLOGRAD SOLID MOTOR PRODUCTION PLANT | UR | 483401N 0354912E | S086673 |

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| 40 | PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV | UR | 595914N 0305935E | S086684 |
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| 40 | SARY SHAGAN MTC COMPLEX B ABM-1B SILOS | UR | 460106N 0722804E | S086376 |
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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|--|------|------------------|----------|
| 40 | SARY SHAGAN MTC COMPLEX E SA-X-10 TRAINING | UR | 453745N 0723500E | |
| 40 | SARY SHAGAN MTC R+D COMPLEX FACILITY A | UR | 455045N 0733104E | S086665 |
| 40 | SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | CH | 410800N 1001500E | S086376 |
| 40 | SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | CH | 410800N 1001500E | |
| 40 | SOLIKAMSK POWDER + SOLID MOTOR PLANT BOROVSK | UR | 594020N 0564252E | S086676 |
| 40 | SPACE CSS-X-4/CSL-2 PAYLOAD TRANSPORTER | CH | | S086571 |
| 40 | STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850 | UR | 534200N 0555807E | S086677 |
| 40 | SUMBER SUMA MILITARY BKS AL1 MT-LB SAM TEL | MG | 462048N 1082410E | S086688 |
| 40 | SVERDLOVSK GUIDED MISSILE PLT 8 CONST SUMMARY | UR | 565213N 0603707E | S086305 |
| 40 | TIENWEI MTC SSM | CH | 255520N 1024928E | S087005 |
| 40 | TYURATAM MTC SPACE SITE U1/2 | UR | 460214N 0630212E | S086283 |
| 40 | TYURATAM MTC SPACE SITE U1/2 | UR | 460214N 0630212E | S086300 |
| 40 | ULYANOVSK MOTOR VEHICLE + MSL SUPT EQUIP PLT | UR | 541848N 0481959E | S086372 |
| 40 | VOTKINSK MISSILE ASBLY/CHECKOUT CONST SUMMARY | UR | 570224N 0540830E | S086305 |
| 40 | VOTKINSK MISSILE ASBLY/CHECKOUT FACIL SSM ACT | UR | 570224N 0540830E | S086488 |
| 40 | VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | UR | 570242N 0535903E | |
| 40 | VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY | UR | 570242N 0535903E | S086305 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
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| | | | | |
| 65 | BALAKLAVA MARINE MAMMAL RSCH STA PROB IDENT | UR | 4430 N 03336 E | S086504 |
| | | | | |
| 65 | MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 | UR | 554527N 0374354E | S086650 |
| 65 | MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 | UR | 554227N 0374354E | S086839 |
| 65 | MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | UR | 555130N 0373630E | S086488 |
| 75 | AL ISKANDARIYAH PORT FACILITIES | EG | 311140N 0295255E | S086552 |
| 75 | BALAKLAVA MARINE MAMMAL RSCH STA PROB IDENT | UR | 4430 N 03336 E | S086504 |
| 75 | BANDAR ABBAS PORT FACILITIES | IR | 271039N 0561602E | S086312 |
| 75 | BANDAR E SHAHPUR PORT FACILITIES ACT DECREASE | IR | 302520N 0490450E | |
| 75 | DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPN | UR | 425400N 1322110E | S086302 |
| 75 | DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPN | UR | 425400N 1322110E | |
| 75 | FEODOSIYA SHIPYARD YUZH-A CLASS PGHB NEW | UR | 450711N 0352953E | S086631 |
| 75 | FEODOSIYA SHIPYARD YUZNAYA TOCHKA FAC NEW U/C | UR | 450711N 0352953E | S086862 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 75 | GULF OF SOLLUM ANCHORAGE SOVIET NAVAL UNITS | EG | 314700N 0253500E | S086630 |
| 75 | KHABAROVSK SHIPYARD USSURI SOUTH 143M ARD T | UR | 482405N 1350226E | S086861 |
| 75 | KHABAROVSK SHIPYARD USSURI SOUTH 876 ARD D | UR | 482405N 1350226E | S086999 |
| 75 | KHORRAMSHAHR PORT FACILITIES DISRUPTIONS | IR | 302615N 0480910E | S086312 |
| 75 | KOLPINO SHIPYARD MIDDLE NEVA T-58 MSF MODIF | UR | 594716N 0303754E | S086846 |
| 75 | KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD | CH | 295246N 1220033E | S086370 |
| 75 | KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD | CH | 295246N 1220033E | |
| 75 | PUNTA MOVIDA NAVAL FACILITY PROB CONST ACT | CU | 220315N 0802640W | S086663 |
| 75 | SEVERODVINSK SHIPYARD 402 CRATES U/I | UR | 643438N 0394832E | S086447 |
| 75 | SEVERODVINSK SHIPYARD 402 LAUNCH BASIN OPRTNL | UR | 643438N 0394832E | S086376 |
| 75 | SEVERODVINSK SHIPYARD 402 PRESSURE HULLS PROB | UR | 643438N 0394832E | S086854 |
| 75 | SHARM ASH SHAYKH PORT FAC SPECIAL-PURPOSE AKL | EG | 275110N 0341715E | S086670 |
| 75 | SHIPS, ARD D FLOATING DRYDOCK | UR | | S086999 |
| 75 | SHIPS, T-58 CLASS MSF MODIFIED | UR | | S086846 |
| 75 | SHIPS, V-3 CLASS SSN | UR | | S086376 |
| 75 | SHIPS, YUZH A CLASS P6HB | UR | | S086631 |
| 75 | SHIPS, 143-METER ARD T | UR | | S086861 |
| 75 | SHIPS, 960-TON SUBMARINE | YO | | S086587 |
| 75 | TAHSIEN NAVAL FACILITIES APPROACHES | CH | 2953 N 12157 E | S086369 |
| 75 | TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | 320455N 0235850E | S086376 |
| 75 | TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | 320455N 0235850E | |
| 75 | TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | 320455N 0235850E | |
| 80 | BERESTOVITSA PETROLEUM PRODUCTS STORAGE U/G | UR | 530542N 0235615E | S087001 |
| 80 | SVISLOCH PETROLEUM PRODUCTS STORAGE PUG | UR | 530010N 0240220E | |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
|---------|---|------|------------------|----------|
| 80 | TARNOWSKIE GORY STORAGE FACILITY U/C | PL | 502740N 0185312E | S086675 |
| 85 | ASTARA RTP ACTIVITY INCREASE | IR | 3826 N 04852 E | S086312 |
| 85 | ASTARA RTP ACTIVITY INCREASE | IR | 3826 N 04852 E | S086312 |
| 85 | BIYSK SOLID MOTOR PROD PLANT 1 NUC RAILCARS | UR | 522905N 0850710E | S086682 |
| 85 | BORISOV AVTOKOLONNA | UR | 541540N 0263030E | S086652 |
| 85 | BRYANSK ROAD MACHINERY + GM SUPT EQUIP PLT 1 | UR | 531502N 0342419E | S086372 |
| 85 | GORKIY MOTOR VEHICLE PLANT GAZ | UR | 561448N 0435341E | S086372 |
| 85 | JOLFA RAIL TRANSSHIPMENT POINT ACT DECREASE | IR | 3857 N 04538 E | S086312 |
| 85 | KALININ RAILROAD LOCOMOTIVE + CAR MFG/RPR PLT | UR | 565206N 0355053E | S086372 |
| 85 | KEMEROVO SOLID MOTOR PROD PLANT NUC RAILCARS | UR | 552458N 0855832E | S086683 |
| 85 | LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | 2150 N 10645 E | S086692 |
| 85 | LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | 2150 N 10645 E | S086692 |
| 85 | LOYANG MOTOR VEHICLE PLANT NORTH HSICHENGLIU | CH | 350450N 1122541E | S086860 |
| 85 | MINSK MOTOR VEH + GM EQUIP PLANT VEH TEST FAC | UR | 535131N 0273931E | S086445 |
| 85 | MINSK MOTOR VEHICLE + GM SUPPORT EQUIP PLANT | UR | 535131N 0273931E | S086372 |
| 85 | MOSKVA MOTOR VEHICLE PLANT LIKHACHEV | UR | 554146N 0373833E | S086372 |
| 85 | NUCLEAR, RAILCARS SOLID MOTOR PROD PLTS ASSOC | UR | | S086830 |
| 85 | OREL ROAD MACHINERY/MISSILE SUPT EQUIP PLANT | UR | 525520N 0360132E | S086372 |

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| EPF/CAT | SUBJECT | COUN | COORD | ACCN NO. |
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| 85 | TRANSPORTATION, ACTIVITY DISRUPTION SOV BDR | IR | | S086312 |
| 85 | TRANSPORTATION, RAIL LINE TRANSLOADING FACILS | UR | | S086847 |
| 85 | TRANSPORTATION, RAIL LINE TRANSLOADING FACILS | UR | | S086848 |
| 85 | TRANSPORTATION, RAIL TRANSLOADING FACILS MIL | PL | | S086484 |
| 85 | TRANSPORTATION, ROAD CONST CHINESE CEASED | LA | | S086496 |

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| 85 | ULYANOVSK MOTOR VEHICLE + MSL SUPT EQUIP PLT | UR | 541848N 0481959E | S086372 |
| 85 | VALGA AVTOKOLONNA 1004 | UR | 574725N 0255908E | S086718 |

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PART IV

Listing of Reports by Coordinates

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|---|------|----------|
| 124745N 0450155E | ADEN AMMUNITION STGE + TEST AREA M-1977 MRL | YS | S086707 |
| 124745N 0450155E | ADEN AMMUNITION STGE + TEST AREA M-1977 MRL | YS | |
| 160233N 1081215E | DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | S086690 |
| 160233N 1081215E | DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | |
| 160233N 1081215E | DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP | VM | |
| 2150 N 10645 E | LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | S086692 |
| 2150 N 10645 E | LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | |
| 2150 N 10645 E | LANG SON RAIL ROAD/HIGHWAY BRIDGES/BATTLE DMG | VM | |
| 2152 N 10705 E | NIENSHENG MILITARY CONVOYS | CH | |
| 241638N 1092304E | LIUCHOU AIRFIELD BEAGLE IL-28/BAT TU-2 DPL | CH | S086464 |
| 2549 N 02755 E | PELINDABA STONE QUARRY EXPLOSIONS | SF | S086503 |
| 255520N 1024928E | TIENWEI MTC SSM | CH | S087005 |
| 275110N 0341715E | SHARM ASH SHAYKH PORT FAC SPECIAL-PURPOSE AKL | EG | S086670 |
| 271039N 0561602E | BANDAR ABBAS PORT FACILITIES | IR | S086312 |
| 272548N 0885524E | JENCHINGKANG STRONGPOINT 2 | CH | S086583 |
| 272555N 0885525E | PIPITANG STRONGPOINT | CH | |
| 272608N 0885426E | JENCHINGKANG STRONGPOINT 1 | CH | |
| 272710N 0885500E | PIPITANG MILITARY STORAGE AREA | CH | |
| 272808N 0885440E | YATUNG MILITARY COMPOUND | CH | |
| 272915N 0885428E | YATUNG MILITARY ACTIVITY | CH | |
| 282620N 0893530E | CHUANTU MILITARY BARRACKS AREA | CH | |
| 284220N 0893825E | CHUEHNEIHSI MILITARY BARRACKS AREA | CH | |
| 285500N 0893620E | CHIANGTzu ARMY BARRACKS | CH | |
| 285702N 0893130E | CHIANGTzu ARMY BARRACKS NW | CH | |
| 283752N 1155526E | NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | S086482 |
| 283752N 1155526E | NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | |
| 283752N 1155526E | NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD | CH | |
| 291456N 0885247E | JHKOTSE ARMY BARRACKS AL2 | CH | S086583 |
| 291540N 0885205E | JHKOTSE ARMY BARRACKS AL3 | CH | |
| 292001N 0885803E | JHKOTSE MILITARY AREA EAST | CH | |
| 291900N 0890210E | JHKOTSE ARMY BARRACKS AL4 | CH | |
| 2919 N 09014 E | CHUSHUI AAA COMPLEX | CH | |
| 291647N 0910108E | KUNGKA MILITARY VEHICLE MAINTENANCE/STGE DPO | CH | |

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| COORD | SUBJECT | COUN | ACCN NO. |
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| 2917 N 09101 E | KUNGKA AAA SITE | CH | |
| 293755N 0910830E | LASA ARMY BARRACKS SOUTH AL2 | CH | |
| 293827N 0910141E | LASA ARMY BARRACKS WEST AL5 | CH | |
| 293846N 0910740E | LASA MILITARY BARRACKS AL4 + HQ TIBET MD | CH | |
| 293912N 0910312E | LASA ARMY MOTOR TRANSPORT BARRACKS + STGE AL7 | CH | |
| 293912N 0910312E | LASA ARMY MOTOR TRANSPORT BARRACKS + STGE AL7 | CH | |
| 2939 N 09105 E | LASA AAA SITES | CH | |
| 290820N 0934218E | OLANG MILITARY BARRACKS AREA | CH | |
| 294749N 0935803E | DZEM ARMY BARRACKS AL1 | CH | |
| 294845N 0935010E | DZEM ARMY BARRACKS AL2 | CH | |
| 295310N 0931425E | KUNGPUCHIANGTA ARMY BARRACKS AL1 | CH | |
| 291120N 0940322E | MILIN ARMY BARRACKS AL2 | CH | |
| 291922N 0942330E | KANGKO MILITARY BARRACKS AREA | CH | |
| 292951N 0942727E | LINCHIH ARMY BARRACKS AL1 | CH | |
| 293353N 0942906E | LINCHIH ARMY BARRACKS AL2 | CH | |
| 294028N 0942040E | CHUEHMU ARMY BARRACKS/DEPOT/SUPPORT AREA | CH | |
| 294028N 0942040E | CHUEHMU ARMY BARRACKS/DEPOT/SUPPORT AREA | CH | |
| 294543N 0941521E | TSUMUTSUNG ARMY BARRACKS NW + HQ DIVISION | CH | |
| 295133N 0954557E | KOTA ARMY BARRACKS AL1 | CH | |
| 294445N 0960650E | RANGAO ARMY BARRACKS AL1 | CH | |

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| 2953 N 12157 E | TAHSIEN NAVAL FACILITIES APPROACHES | CH | S086369 |
| 295246N 1220033E | KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD | CH | S086370 |
| 295246N 1220033E | KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD | CH | |
| 302535N 0473842E | SHAIBAH AIRFIELD HIND D MI-24 IDENTIFICATION | IZ | S086466 |
| 302615N 0480910E | KHORRAMSHAHR PORT FACILITIES DISRUPTIONS | IR | S086312 |
| 302520N 0490450E | BANDAR E SHAHPUR PORT FACILITIES ACT DECREASE | IR | |

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| 300321N 0902939E | YANGPACHING GEOTHERMAL POWER STATION | CH | S086492 |
| 303338N 0970638E | PANGTA ENGINEER BARRACKS AL1 | CH | S086583 |
| 303858N 1040653E | CHENG TU AIRCRAFT ENGINE PLANT 420 | CH | S086489 |

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TOP SECRET CHESS RUFF ZARF UMBRA

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|---|------|----------|
| 300202N 1173634E | LIENKENGWANG IRBM SITE 4 | CH | S086333 |
| 300446N 1173443E | LIENKENGWANG IRBM SITE 8 | CH | |
| 300636N 1173433E | LIENKENGWANG IRBM SITE 5 | CH | |
| 300846N 1173421E | LIENKENGWANG IRBM SITE 6 | CH | |
| 314700N 0253500E | GULF OF SOLLUM ANCHORAGE SOVIET NAVAL UNITS | EG | S086630 |
| 311140N 0295255E | AL ISKANDARIYAH PORT FACILITIES | EG | S086552 |
| 313000N 1044535E | MIENYANG MILITARY BARRACKS + STORAGE AREA | CH | S086584 |
| 313000N 1044535E | MIENYANG MILITARY BARRACKS + STORAGE AREA | CH | |
| 320455N 0235850E | TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | S086376 |
| 320455N 0235850E | TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | |
| 320455N 0235850E | TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C | LY | |
| 325616N 0394444E | H-3 AIRFIELD CONSTRUCTION ACTIVITY | IZ | S086672 |

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| 344736N 0054417E | BISKRA AIRFIELD HIND A MI-24/SHPG CONTS IDENT | AG | S086689 |
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| 350450N 1122541E | LOYANG MOTOR VEHICLE PLANT NORTH HSICHENGLIU | CH | S086860 |
| 363740N 1050004E | TALACHIH AIRFIELD FANTAN A F-9 IDENTIFICATION | CH | S086633 |

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|--|------|----------|
| 373510N 0615130E | MARY SAM SUPPORT FACILITY 2 | UR | S086713 |
| 373500N 0615130E | MARY SAM SUPPORT FACILITY 3 SA-6 ACTIVITY | UR | |
| 3857 N 04538 E | JOLFA RAIL TRANSSHIPMENT POINT ACT DECREASE | IR | S086312 |
| 3826 N 04852 E | ASTARA RTP ACTIVITY INCREASE | IR | |
| 3826 N 04852 E | ASTARA RTP ACTIVITY INCREASE | IR | |
| 390745N 1272430E | WONSAN RADIO RELAY STATION R-600 | KN | S086475 |
| 404625N 0195405E | BERAT/STALIN AIRFIELD AIRCRAFT BUNKERS | AL | S086570 |
| 402546N 0995046E | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 8 | CH | S086539 |
| 405148N 1224519E | HAICHENG ARMY BARRACKS NNE AL7 | CH | S086574 |
| 410630N 0441600E | KALININO AIRFIELD LRA SUPPORT CAPABILITY | UR | S086829 |
| 411846N 0692331E | TASHKENT AIRFIELD CANDID IL-76 LIBYAN/IRAQI | UR | S086691 |
| 410025N 1001310E | HSIMIAO ARMY BARRACKS AL2 | CH | S086540 |
| 410120N 1001312E | HSIMIAO ARMY BARRACKS AL1 | CH | S086538 |
| 410650N 1001650E | SHUANGCHENG TZU ARMY BARRACKS AL1 | CH | S086541 |
| 410631N 1002025E | SHUANGCHENG TZU ARMY BARRACKS AL2 | CH | S086542 |
| 410800N 1001500E | SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | CH | S086376 |
| 410800N 1001500E | SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | CH | |
| 411613N 1002013E | SHUANGCHENG TZU DEFENSIVE STRONGPOINT | CH | S086543 |
| 4130 N 10030 E | SHUANGCHENG TZU MILITARY AREA | CH | S086537 |

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|--|------|----------|
| 414323N 1002727E | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 4 | CH | S086545 |
| 414557N 1004208E | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 5 | CH | S086544 |
| 415310N 1003327E | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 2 | CH | S086546 |
| 415610N 1010140E | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 3 | CH | S086547 |
| 410744N 1211059E | CHINCHOU MILITARY BARRACKS AL5 + HQ ARTY DIV | CH | S086554 |
| 4107 N 12111 E | CHINCHOU MILITARY AREA 2 | CH | S086553 |
| 413607N 1214655E | PEICHEN ARMY BARRACKS AL1 | CH | S086555 |
| 414115N 1220640E | HEISHAN ARMY BARRACKS AL1 | CH | S086556 |
| 411443N 1230827E | LIAOYANG ARMY BARRACKS AL2 + HQ ARTILLERY DIV | CH | S086573 |
| 4116 N 12310 E | LIAOYANG MILITARY AREA 1 | CH | S086572 |
| 422130N 0191507E | TITOGRA D INTERNATIONAL AIRFIELD AIRCRAFT BKRS | YO | S086642 |

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|------------------|--|----|---------|
| 422050N 0862245E | HOCHING ARMY BARRACKS AL2 ARMOR DPL NEW | CH | S086693 |
| 420703N 1005405E | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 6 | CH | S086549 |
| 420318N 1012212E | SHUANGCHENG TZU WEAPONS POSITIONS | CH | S086548 |
| 421851N 1010654E | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 1 | CH | S086550 |
| 422040N 1011400E | OCHINACHI DEFENSIVE STRONGPOINT | CH | S086551 |
| 423847N 1254839E | HAILUNG ARMY BARRACKS WEST AL3 | CH | S086560 |
| 424103N 1255943E | HUINAN ARMY BARRACKS WEST AL1 | CH | S086559 |
| 425150N 1260250E | PANSHIH ARMY BARRACKS SOUTH AL2 | CH | S086561 |
| 4256 N 12604 E | PANSHIH MILITARY AREA 1 | CH | S086557 |
| 425604N 1260424E | PANSHIH ARMY BARRACKS SE AL1 + HQ ARTY DIV | CH | S086558 |

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|---|------|----------|
| 425400N 1322110E | DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPSN | UR | S086302 |
| 425400N 1322110E | DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPSN | UR | |
| 434915N 0203509E | OBRVA AIRFIELD AIRCRAFT BUNKERS | YO | S086648 |
| | | | |
| 430910N 0762330E | ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I | UR | S086837 |
| 431211N 0763603E | ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I | UR | S086836 |
| 433520N 1221415E | TUNGLIAO ARMY BARRACKS SW AL7 | CH | S086581 |
| 430656N 1244257E | SSUPING ARMY BARRACKS EAST AL5 TANK TRSHPMT | CH | S086471 |
| 4310 N 12420 E | SSUPING MILITARY AREA 1 | CH | S086579 |
| 431024N 1242105E | SSUPING MILITARY BKS AL1/HQ ANTITANK ARTY DIV | CH | S086580 |
| 430657N 1315340E | VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER | UR | S086727 |
| 430657N 1315340E | VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER | UR | |
| 430704N 1315501E | VLADIVOSTOK TV TRANSMITTER STATION 1 | UR | |
| | | | |
| 445340N 0135520E | PULA AIRFIELD AIRCRAFT BUNKERS | YO | S086641 |
| 440552N 0152124E | ZADAR AIRFIELD AIRCRAFT BUNKERS | YO | S086567 |
| 442730N 0184330E | TUZLA AIRFIELD AIRCRAFT BUNKERS | YO | S086565 |
| 445630N 0201500E | BATAJNICA AIRFIELD AIRCRAFT BUNKERS | YO | S086643 |
| 442131N 0282920E | CONSTANTA/MIHAIL KOGALNICEANU AFLD R5BN-4N | RO | S086589 |
| 4430 N 03336 E | BALAKLAVA MARINE MAMMAL RSCH STA PROB IDENT | UR | S086504 |
| 4430 N 03336 E | BALAKLAVA MARINE MAMMAL RSCH STA PROB IDENT | UR | |

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TOP SECRET CHESS RUFF ZARF UMBRA

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|---|------|----------|
| 443428N 0400732E | MAYKOP ARMY BKS SOUTH MRD SECOND GENERATION | UR | S086656 |
| 443051N 1111151E | ULAAN UUL MILITARY TRNG AREA JOINT TRNG EXER | MG | S086696 |
| 440859N 1331523E | ARSENIEV AIRFRAME PLANT 116 CONST SUMMARY | UR | S086305 |
| 441608N 1332402E | VARFOLOMEYEVKA ARMY BARRACKS AL1 | UR | S086721 |
| 455401N 0153155E | CERKLJE AIRFIELD AIRCRAFT BUNKERS | YO | S086566 |
| 454435N 0160413E | ZAGREB AIRFIELD AIRCRAFT BUNKERS | YO | S086647 |
| 455650N 0292239E | CHERVONO GLINSKOYE AIRFIELD FLAGON SU-15 | UR | S086720 |
| 451930N 0340623E | OKTYABRSKOYE AIRFIELD PRE-FLIGHT ACTIVITY | UR | S086632 |
| 450711N 0352953E | FEODOSIYA SHIPYARD YUZH-A CLASS PGHB NEW | UR | S086631 |
| 450711N 0352953E | FEODOSIYA SHIPYARD YUZNAYA TOCHKA FAC NEW U/C | UR | S086862 |
| 454230N 0632020E | TYURATAM MTC RANGEHEAD TRACKING FAC BOW/ARROW | UR | S086671 |
| 453745N 0723500E | SARY SHAGAN MTC COMPLEX E SA-X-10 TRAINING | UR | S086376 |
| 455045N 0733104E | SARY SHAGAN MTC R+D COMPLEX FACILITY A | UR | S086665 |
| 454459N 1061443E | MANDALGOVI MILITARY INSTALLATION MRD MBLZTN | MG | S086697 |
| 453910N 1225015E | PAICHENG ARMY BARRRACKS NORTH ALS | CH | S086582 |

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| 4621 N 04803 E | ASTRAKHAN GAS FIELD DEVELOPMENT | UR | S086495 |
| 460214N 0630212E | TYURATAM MTC SPACE SITE U1/2 | UR | S086283 |
| 460214N 0630212E | TYURATAM MTC SPACE SITE U1/2 | UR | S086300 |
| 460106N 0722804E | SARY SHAGAN MTC COMPLEX B ABM-1B SILOS | UR | S086376 |
| 463600N 0743000E | SARY SHAGAN MTC PHASED-ARRAY RADAR FAC NORTH | UR | S086705 |
| 462100N 1025000E | ARVAYHEER HELIPORT CURL AN-26/CRATE IL-14 | MG | S086698 |

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| COORD | SUBJECT | COUN | ACCN NO. |
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| 462200N 1024800E | ARVAYHEER ARMY BKS AL1 RSV EQUIP ACTIVATED | MG | |
| 462048N 1082410E | SUMBER SUMA MILITARY BKS AL1 MT-LB SAM TEL | MG | S086688 |
| 462048N 1082410E | SUMBER SUMA MILITARY BKS AL1 MT-LB SAM TEL | MG | |
| 472008N 0163550E | SZOMBATHELY AMMUNITION DEPOT KOSZEG 501 | HU | S087002 |
| | | | |
| 4719 N 02905 E | GOLERKANY CIVIL DEFENSE GOVERNMENT RELOC SITE | UR | S086376 |
| 475140N 0351750E | ZAPOROZHYE AIRCRAFT REPAIR BASE | UR | S086563 |
| 471546N 0394846E | ROSTOV AIRCRAFT REPAIR BASE | UR | S086646 |
| 472430N 0400625E | NOVOCHERKASSK ARMY BARRACKS AL9 | UR | S086859 |
| 472003N 1235832E | CHICHIHAERH ARMS + AMMUNITION PARTS PLANT 127 | CH | S086481 |
| 471536N 1424617E | DOLINSK/SOKOL AIRFIELD FLAGON SU-15 COUNTS | UR | S086828 |
| | | | |
| 485415N 0244005E | IVANO FRANKOVSK ARMY BARRACKS AL5 | UR | S086853 |
| 480220N 0305110E | PERVOMAYSK MILITARY INSTALLATION | UR | S086856 |
| 480130N 0324154E | DOLINSKAYA AIRFIELD LRA SUPPORT CAPABILITY | UR | S086833 |
| | | | |
| 482601N 0345828E | DNEPROPETROVSK MISSILE DPC SSM ACTIVITY | UR | S086488 |
| 482601N 0345828E | DNEPROPETROVSK MISSILE DPC CONST SUMMARY | UR | S086305 |
| 482658N 0355723E | PAVLOGRAD SOLID MOTOR ASBLY + TEST SUPT FACIL | UR | S086685 |
| | | | |
| 483401N 0354912E | PAVLOGRAD SOLID MOTOR PRODUCTION PLANT | UR | |

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| COORD | SUBJECT | COUN | ACCN NO. |
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| 481750N 0401049E | KAMENSK SHAKHTINSKIY SOLID MOTOR PROD PLANT | UR | S086678 |
| 484632N 0443449E | VOLGOGRAD STEEL + MACH PLT KRASNYY BARRIKADA | UR | S086372 |
| 485510N 0443119E | VOLGOGRAD MILITARY TEST FACILITY 1 | UR | |
| 483858N 0454538E | KAPUSTIN YAR MTC RANGEHEAD TRKG FAC BOW/ARROW | UR | S086671 |
| 480600N 0534400E | MAKAT ASM IMPACT AREA B RADAR TGTS/CRTS NEW | UR | S086506 |
| 483103N 0580207E | EMBA MTC LAUNCH CPLX SPOON REST D RDR VAN MTD | UR | S086477 |

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| 482405N 1350226E | KHABAROVSK SHIPYARD USSURI SOUTH 143M ARD T | UR | S086861 |
| 482405N 1350226E | KHABAROVSK SHIPYARD USSURI SOUTH 876 ARD D | UR | S086999 |
| 494935N 0234130E | GORODOK AIRFIELD NE LRA AIRCRAFT SUPPORT CPBL | UR | S086687 |
| 492330N 0270200E | KHMELNITSKIY ARMY TRAINING AREA SE | UR | S086844 |
| 494749N 0300135E | BELAYA TSERKOV AIRFIELD MOSS TU-126 | UR | S086843 |
| 494444N 0350132E | KOCHUBEYEVKA AIRFIELD NO SIGNIFICANT CHANGE | UR | S086831 |
| 490006N 0443435E | VOLGOGRAD MILITARY TEST FACILITY 3 | UR | S086372 |

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|------------------|---|----|---------|
| 501530N 0145335E | MILOVICE SA-6 TRNG SITE A02 FLAT FACE MODIF | CZ | S086588 |
| 502740N 0185312E | TARNOWSKIE GORY STORAGE FACILITY U/C | PL | S086675 |
| 501827N 0264902E | SLAVUTA AMMUNITION DEPOT WEST DA1 | UR | S086657 |
| 503749N 0261437E | ROVNO MILITARY SUPPLY DEPOT NORTH DQ1 | UR | S086645 |

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| 503601N 0301143E | GOSTOMEL AIRFIELD LRA AIRCRAFT SUPPORT CPBL | UR | S086825 |
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| 511712N 0461355E | ENGELS/LEBEDOVO AIRFIELD LRA SUPPORT CPBL | UR | S086832 |
| 514818N 0550802E | ORENBURG GUIDED MISSILE PLT 47 CONST SUMMARY | UR | S086305 |
| 514818N 0550802E | ORENBURG GUIDED MISSILE PLANT 47 SSM ACTIVITY | UR | S086488 |
| 515333N 0672113E | TYURATAM MTC TRACKING FACILITY 5 BOW + ARROW | UR | S086671 |
| 513222N 0811237E | RUBTSOVSK TRACTOR PLANT ALTA 1 | UR | S086372 |
| 515111N 1075329E | ULAN UDE MILITARY BARRACKS AL3 REGT ABSENT | UR | S086699 |
| 515040N 1122850E | SOKHONDO AIRFIELD | UR | S086354 |
| 515500N 1130718E | DOMNA AIRFIELD FLOGGER MIG-23 | UR | S086714 |

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|--|------|----------|
| 520540N 0233815E | BREST ENGINEER STORAGE FACILITY | UR | S086724 |
| 525555N 0332400E | POCHEP AIRFIELD LRA AIRCRAFT SUPPORT CPBL | UR | S086827 |
| 525520N 0360132E | OREL ROAD MACHINERY/MISSILE SUPT EQUIP PLANT | UR | S086372 |
| 525520N 0360132E | OREL ROAD MACHINERY/MISSILE SUPT EQUIP PLANT | UR | |
| 520505N 1132920E | CHITA ARMY BARRACKS NORTH AL2 + TRNG AREA 2 | UR | S086651 |
| 520505N 1132920E | CHITA ARMY BARRACKS NORTH AL2 + TRNG AREA 2 | UR | |
| 530542N 0235615E | BERESTOVITSA PETROLEUM PRODUCTS STORAGE U/G | UR | S087001 |
| 530010N 0240220E | SVISLOCH PETROLEUM PRODUCTS STORAGE PUG | UR | |

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TOP SECRET CHESS RUFF ZARF UMBRA

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|---|------|----------|
| 533458N 0254745E | NOVOGRUDOK ARMY BARRACKS AL1 | UR | S087000 |
| 535131N 0273931E | MINSK MOTOR VEH + GM EQUIP PLANT VEH TEST FAC | UR | S086445 |
| 535131N 0273931E | MINSK MOTOR VEHICLE + GM SUPPORT EQUIP PLANT | UR | S086372 |
| 535131N 0273931E | MINSK MOTOR VEHICLE + GM SUPPORT EQUIP PLANT | UR | |
| 535131N 0273931E | MINSK MOTOR VEH + GM EQUIP PLANT VEH TEST FAC | UR | S086445 |
| 531727N 0283837E | OSIPOVICH I ARMY BKS SOUTH AL2 M-1977 MRL DPL | UR | S086465 |
| 531210N 0291630E | BOBRUYSK ORDNANCE DEPOT NNE D01 | UR | S086841 |
| | | | |
| 531502N 0342419E | BRYANSK ROAD MACHINERY + GM SUPT EQUIP PLT 1 | UR | S086372 |
| 531502N 0342419E | BRYANSK ROAD MACHINERY + GM SUPT EQUIP PLT 1 | UR | |
| 531713N 0342352E | BRYANSK GUIDED MISSILE SUPPORT EQUIP PLANT 2 | UR | |
| | | | |
| 534200N 0555807E | STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850 | UR | S086677 |
| 534200N 0555807E | STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850 | UR | |
| | | | |
| 531017N 1582711E | PETROPAVLOVSK/YELIZOVO AIRFIELD COOT MODIFIED | UR | S086505 |
| 542230N 0184027E | GDANSK MILITARY BARRACKS | PL | S086644 |
| | | | |
| 545240N 0235500E | KAUNAS AIRCRAFT REPAIR BASE | UR | S086564 |
| 541540N 0283030E | BORISOV AVTOKOLONNA | UR | S086652 |
| 541848N 0481959E | ULYANOVSK MOTOR VEHICLE + MSL SUPT EQUIP PLT | UR | S086372 |
| 541848N 0481959E | ULYANOVSK MOTOR VEHICLE + MSL SUPT EQUIP PLT | UR | |

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| COORD | SUBJECT | COUN | ACCN NO. |
|------------------|---|------|----------|
| 545759N 0732748E | OMSK AIRFRAME PLANT 166 CONSTRUCTION SUMMARY | UR | S086305 |
| 551143N 0363735E | MOSKVA MISSILE ASSOCIATED INSTL SILO CONV | UR | S086487 |
| 554146N 0373A33E | MOSKVA MOTOR VEHICLE PLANT LIKHACHEV | UR | S086372 |
| 554227N 0374354E | MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 | UR | S086839 |
| 554530N 0372928E | MOSKVA MISSILE PRODUCTION PLANT FILI 23 | UR | S086272 |
| 554530N 0372928E | MOSKVA MISSILE PROD PLT FILI 23 CONST SUMMARY | UR | S086305 |
| 554530N 0372928E | MOSKVA MISSILE PRODUCTION PLT FILI 23 SSM ACT | UR | S086488 |
| 554527N 0374354E | MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 | UR | S086650 |
| 554547N 0375209E | MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | UR | S086488 |
| 554547N 0375209E | MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV | UR | S086272 |
| 554547N 0375209E | MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | UR | S086488 |
| 554547N 0375209E | MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV | UR | S086272 |
| 554939N 0373023E | MOSKVA GUIDED MISSILE PLANT #1 CONST SUMMARY | UR | S086305 |
| 555130N 0373630E | MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | UR | S086488 |
| 555130N 0373630E | MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | UR | |
| 555222N 0372A40E | MOSKVA ARMY BARRACKS AL42 + SIGNAL REGIMENT | UR | S086840 |
| 555544N 0373027E | MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY | UR | S086305 |

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| COORD | SUBJECT | COUN | ACCN NO. |
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| 555544N 0373027E | MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY | UR | |
| 552651N 0381427E | BRONNITSY ARMORED VEHICLE RESEARCH FACILITY | UR | S086372 |
| 552700N 0380800E | BRONNITSY MILITARY VEHICLE TEST AREA | UR | |
| 552746N 0383143E | FAUSTOVO AEROSPACE R+D FACILITY | UR | S086272 |
| 552746N 0383143E | FAUSTOVO AEROSPACE R+D FACILITY SSM ACTIVITY | UR | S086488 |
| 554801N 0490251E | KAZAN AIRFRAME PLANT A387 | UR | S086702 |
| 550617N 0594223E | ZLAToust ARMAMENT PLANT 66 CONST SUMMARY | UR | S086305 |
| 554224N 0604800E | KYSHTYM PLUTONIUM PROD PLANT CHEM SEP AREA 3 | UR | S086858 |
| 554139N 0845941E | YURGA ARMY BKS SE AL1 HEAVY ARTY BRGD IDENT | UR | S086717 |

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|------------------|---|----|---------|
| 562750N 0210120E | LIEPAJA AIRFIELD TALL KING AW RADAR ELCT O/B | UR | S086474 |
| 565525N 0235817E | RIGA AIRFIELD WEST MOSS TU-126 SEARCH | UR | S086834 |
| 565832N 0240351E | RIGA AIRCRAFT REPAIR BASE | UR | S086568 |
| 565206N 0355053E | KALININ RAILROAD LOCOMOTIVE + CAR MFG/RPR PLT | UR | S086372 |
| 560803N 0370420E | SAVELYEVO RADIO RELAY STATION | UR | S086725 |
| 564521N 0370700E | IVANKOVSKIY GUIDED MISSILE PLT CONST SUMMARY | UR | S086305 |
| 565819N 0405715E | IVANOVO CRANE PLANT | UR | S086372 |
| 562208N 0411934E | KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | S086305 |
| 562208N 0411934E | KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | |
| 562208N 0411934E | KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY | UR | |
| 561448N 0435341E | GORKIY MOTOR VEHICLE PLANT GAZ | UR | S086372 |
| 561936N 0435321E | GORKIY ARMAMENT PLT NOVYE SORMOVO STALIN 92 | UR | |
| 564215N 0602340E | SVERDLOVSK AIR DEFENSE COMMAND POST | UR | S086817 |

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| COORD | SUBJECT | COUN | ACCN NO. |
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| 565213N 0603707E | SVERDLOVSK GUIDED MISSILE PLT 8 CONST SUMMARY | UR | S086305 |
| 563705N 0845217E | TOMSK URANIUM ISOTOPE SEP PLT CASCADE BLDG 4 | UR | S086376 |
| 560054N 0925913E | KRASNOYARSK ARMS PLT VOROSHILOV CONST SUMMARY | UR | S086305 |
| 560236N 0930237E | KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT | UR | S086681 |
| 560236N 0930237E | KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT | UR | |
| 574725N 0255908E | VALGA AVTOKOLONNA 1004 | UR | S086718 |
| 574534N 0405333E | KOSTROMA CONSTRUCTION + GM SUPPORT EQUIP PLT | UR | S086372 |
| 574534N 0405333E | KOSTROMA CONSTRUCTION + GM SUPPORT EQUIP PLT | UR | |
| 570242N 0535903E | VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY | UR | S086305 |
| 570242N 0535903E | VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | UR | S086488 |
| 570242N 0535903E | VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY | UR | S086305 |
| 570242N 0535903E | VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | UR | S086488 |
| 570224N 0540830E | VOTKINSK MISSILE ASBLY/CHECKOUT CONST SUMMARY | UR | S086305 |
| 570224N 0540830E | VOTKINSK MISSILE ASBLY/CHECKOUT FACIL SSM ACT | UR | S086488 |

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| 574550N 0561125E | PERM ICBM COMPLEX HQ COMSAT STATION ANTENNAS | UR | S086816 |
| 583834N 0493709E | KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY | UR | S086305 |
| 583834N 0493709E | KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY | UR | |
| 595412N 0290118E | LOMONOSOV LASER WPNS FAC FAN-SHAPED RANGE U/C | UR | S086446 |
| 594025N 0304210E | KRASNY BOK RADIO RELAY STATION NEW | UR | S086726 |
| 594716N 0303754E | KOLPINO SHIPYARD MIDDLE NEVA T-58 MSF MODIF | UR | S086846 |
| 595302N 0301456E | LENINGRAD HEAVY EQUIP PLANT 185 FAB BLDG NEW | UR | S086849 |

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| COORD | SUBJECT | COUN | ACCN NO. |
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| 595613N 0302319E | LENINGRAD INSTRUMENT STATE PLANT LIZ | UR | S086637 |
| 595934N 0301721E | LENINGRAD GUIDED MSL PLANT 458 CONST SUMMARY | UR | S086305 |
| 595914N 0305935E | PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV | UR | S086684 |
| 595914N 0305935E | PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV | UR | |
| 592150N 0311450E | LYUBAN RADIO RELAY STATION NORTH NEW | UR | S086726 |
| 592630N 0320040E | KIRISHI RADIO RELAY STATION | UR | |
| 592900N 0325400E | KLINETS RADIO RELAY STATION NEW | UR | |
| 591000N 0350930E | ANISIMOV RADIO RELAY STATION NEW | UR | |
| 591054N 0352005E | CHAGODA RADIO RELAY STATION NEW | UR | |
| 591124N 0390740E | KIPELOVO AIRFIELD | UR | S086662 |
| 591124N 0390740E | KIPELOVO AIRFIELD GCA SITE | UR | |
| 591130N 0390810E | KIPELOVO NAVAL AVIATION COMD POST BKR SOUTH | UR | |
| 591329N 0390947E | KIPELOVO AIRFIELD PETROLEUM PRODUCTS STGE RSV | UR | |
| 591414N 0391138E | KIPELOVO NAVAL AVIATION COMMAND POST BKR NE | UR | |
| 591410N 0395530E | VOLOGDA AMMUNITION DEPOT DA1 | UR | S086838 |
| 594020N 0564252E | SOLIKAMSK POWDER + SOLID MOTOR PLANT BOROVSK | UR | S086676 |
| | | | |
| 624645N 0402010E | PLESETSK MTC RANGEHEAD TRACKING FAC BOW/ARROW | UR | S086671 |
| 643438N 0394832E | SEVERODVINSK SHIPYARD 402 CRATES U/I | UR | S086447 |
| 643438N 0394832E | SEVERODVINSK SHIPYARD 402 LAUNCH BASIN OPRTNL | UR | S086376 |
| 643438N 0394832E | SEVERODVINSK SHIPYARD 402 PRESSURE HULLS PROB | UR | S086854 |
| 643835N 0391220E | NENOKSA NAVAL MTC LAUNCH FAC D ERECTOR/LOADER | UR | S086629 |
| | | | |
| 660300N 0764735E | URENGOY GAS FIELD 1 | UR | S086703 |

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| COORD | SUBJECT | COUN | ACCN NO. |
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| 660307N 0765138E | URENGOY GAS FIELD 4 | UR | |
| 660521N 0764033E | URENGOY GAS FIELD 3 | UR | |
| 662859N 0764052E | URENGOY GAS FIELD 2 | UR | |
| 673329N 0640941E | VORKUTA INTERFEROMETER SITE BOW + ARROW | UR | S086671 |
| 6912 N 13947 E | DEPUTATSKIY TROPOSCATTER/MICROWAVE TOWER POSS | UR | S086494 |
| 7038 N 13420 E | KULAR COMMUNICATIONS FACILITY SEARCH | UR | |
| 7001 N 13531 E | UST KUYGA MICROWAVE TOWER SITE POSS U/C | UR | |
| 7044 N 13610 E | KAZACHYE U/I CONSTRUCTION | UR | |
| 713806N 1284509E | TIKSI TROPOSCATTER STATION 19 METER DISH ANTS | UR | |
| 220315N 0802640W | PUNTA MOVIDA NAVAL FACILITY PROB CONST ACT | CU | S086663 |
| 003430S 0304140E | MBARARA ARMY BARRACKS BATTLE DAMAGE | UG | S086786 |
| 160612S 0333820E | TETE CHINGOZI AIRFIELD COMBAT DAMAGE | MZ | S086467 |
| 160612S 0333820E | TETE CHINGOZI AIRFIELD COMBAT DAMAGE | MZ | |
| 175300S 0155800E | ONDANGUA AIRFIELD AIRCRAFT INCREASE | WA | S086695 |

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|------------------|---|----|---------|
| 340420S 0184530E | FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC | SF | S086375 |
| 340420S 0184530E | FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC | SF | |

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PART V

Listing of Reports by WAC/BE Number

TOP SECRET CHESS RUFF ZARF UMBRA

WAC/BE

| SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|---|-----------|------------------|------|----------|
| TIKSI TROPOSCATTER STATION 19 METER DISH ANTS | | 713806N 1284509E | UR | S086494 |
| SEVERODVINSK SHIPYARD 402 PRESSURE HULLS PROB | | 643438N 0394832E | UR | S086854 |
| SEVERODVINSK SHIPYARD 402 LAUNCH BASIN OPRTNL | | 643438N 0394832E | UR | S086376 |
| SEVERODVINSK SHIPYARD 402 CRATES U/I | | 643438N 0394832E | UR | S086447 |
| NENOKSA NAVAL MTC LAUNCH FAC D ERECTOR/LOADER | | 643835N 0391220E | UR | S086629 |
| VORKUTA INTERFEROMETER SITE BOW + ARROW | | 673329N 0640941E | UR | S086671 |
| URENGOY GAS FIELD 1 | | 660300N 0764735E | UR | S086703 |
| URENGOY GAS FIELD 2 | | 662859N 0764052E | UR | |
| URENGOY GAS FIELD 3 | | 660521N 0764033E | UR | |
| URENGOY GAS FIELD 4 | | 660307N 0765138E | UR | |
| PLESETSK MTC RANGEHEAD TRACKING FAC BOW/ARROW | | 624645N 0402010E | UR | S086671 |
| LIEPAJA AIRFIELD TALL KING AW RADAR ELCT O/B | | 562750N 0210120E | UR | S086474 |
| LOMONOSOV LASER WPNS FAC FAN-SHAPED RANGE U/C | | 595412N 0290118E | UR | S086446 |
| KRASNY BOR RADIO RELAY STATION NEW | | 594025N 0304210E | UR | S086726 |
| KLINETS RADIO RELAY STATION NEW | | 592900N 0325400E | UR | |
| KIRISHI RADIO RELAY STATION | | 592630N 0320040E | UR | |
| LYUBAN RADIO RELAY STATION NORTH NEW | | 592150N 0311450E | UR | |
| LENINGRAD HEAVY EQUIP PLANT 185 FAB BLDG NEW | | 595302N 0301456E | UR | S086849 |
| PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV | | 595914N 0305935E | UR | S086684 |
| PETROKREPOST EXPLOSIVES/SOLID MTR PLT MOROZOV | | 595914N 0305935E | UR | |
| LENINGRAD INSTRUMENT STATE PLANT LIZ | | 595613N 0302319E | UR | S086637 |
| LENINGRAD GUIDED MSL PLANT 458 CONST SUMMARY | | 595934N 0301721E | UR | S086305 |

TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

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WAC/BE

SUBJECT

IDHS CODE

COORD

COUN

ACCN NO.

KOLPINO SHIPYARD MIDDLE NEVA T-58 MSF MODIF

594716N 0303754E

UR

S086846

RIGA AIRCRAFT REPAIR BASE

565832N 0240351E

UR

S086568

VALGA AVTOKOLONNA 1004

574725N 0255908E

UR

S086718

RIGA AIRFIELD WEST MOSS TU-126 SEARCH

565525N 0235817E

UR

S086834

CHAGODA RADIO RELAY STATION NEW
ANISIMOVO RADIO RELAY STATION NEW591054N 0352005E
591000N 0350930EUR
UR

S086726

KIPELOVO AIRFIELD GCA SITE

591124N 0390740E

UR

S086662

GORKIY MOTOR VEHICLE PLANT GAZ
KALININ RAILROAD LOCOMOTIVE + CAR MFG/RPR PLT
GORKIY ARMAMENT PLT NOVOTE SORMOVO STALIN 92561448N 0435341E
565206N 0355053E
561936N 0435321EUR
UR
UR

S086372

IVANKOVSKIY GUIDED MISSILE PLT CONST SUMMARY

564521N 0370700E

UR

S086305

IVANOV CRANE PLANT

565819N 0405715E

UR

S086372

KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY
KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY
KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY562208N 0411934E
562208N 0411934E
562208N 0411934EUR
UR
UR

S086305

KOSTROMA CONSTRUCTION + GM SUPPORT EQUIP PLT
KOSTROMA CONSTRUCTION + GM SUPPORT EQUIP PLT574534N 0405333E
574534N 0405333EUR
UR

S086372

KIPELOVO AIRFIELD PETROLEUM PRODUCTS STGE RSV

591329N 0390947E

UR

S086662

SAVELYEVO RADIO RELAY STATION

560803N 0370420E

UR

S086725

VOLOGDA AMMUNITION DEPOT DA1

591410N 0395530E

UR

S086838

KIPELOVO NAVAL AVIATION COMMAND POST BKR NE
KIPELOVO NAVAL AVIATION COMD POST BKR SOUTH
KIPELOVO AIRFIELD591414N 0391138E
591130N 0390810E
591124N 0390740EUR
UR
UR

S086662

KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY
KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY
VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY
VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY583834N 0493709E
583834N 0493709E
570242N 0535903E
570242N 0535903EUR
UR
UR
UR

S086305

TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

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| WAC/BE | SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|--------|---------|-----------|-------|------|----------|
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|---|------------------|----|---------|
| VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | 570242N 0535903E | UR | S086488 |
| VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | 570242N 0535903E | UR | |
| VOTKINSK MISSILE ASBLY/CHECKOUT CONST SUMMARY | 570224N 0540830E | UR | S086305 |
| VOTKINSK MISSILE ASBLY/CHECKOUT FACIL SSM ACT | 570224N 0540830E | UR | S086488 |
| SVERDLOVSK AIR DEFENSE COMMAND POST | 564215N 0602340E | UR | S086817 |
| SVERDLOVSK GUIDED MISSILE PLT 8 CONST SUMMARY | 565213N 0603707E | UR | S086305 |
| SOLIKAMSK POWDER + SOLID MOTOR PLANT BOROVSK | 594020N 0564252E | UR | S086676 |

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| PERM ICBM COMPLEX HQ COMSAT STATION ANTENNAS | 574550N 0561125E | UR | S086816 |
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|---|------------------|----|---------|
| KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT | 560236N 0930237E | UR | S086681 |
| KRASNOYARSK EXPLOSIVES + SOLID MOTOR PROD PLT | 560236N 0930237E | UR | |
| KRASNOYARSK ARMS PLT VOROSHILOV CONST SUMMARY | 560054N 0925913E | UR | S086305 |

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|---|------------------|----|---------|
| YURGA ARMY BKS SE AL1 HEAVY ARTY BRGD IDENT | 554139N 0845941E | UR | S086717 |
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|--|------------------|----|---------|
| OMSK AIRFRAME PLANT 166 CONSTRUCTION SUMMARY | 545759N 0732748E | UR | S086305 |
| ZLAToust ARMAMENT PLANT 66 CONST SUMMARY | 550617N 0594223E | UR | |

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TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

| WAC/BE | SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|--------|--|-----------|--|----------------|----------|
| | ULYANOVSK MOTOR VEHICLE + MSL SUPT EQUIP PLT ULYANOVSK MOTOR VEHICLE + MSL SUPT EQUIP PLT | | 541848N 0481959E 541848N 0481959E | UR UR | S086372 |
| | KAZAN AIRFRAME PLANT A387 | | 554801N 0490251E | UR | S086702 |
| | STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850 STERLITAMAK EXPLOSIVES/SOLID MTR PROD PLT 850 | | 534200N 0555807E 534200N 0555807E | UR UR | S086677 |
| | BRONNITSY MILITARY VEHICLE TEST AREA | | 552700N 0380800E | UR | S086372 |
| | MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | | 555130N 0373630E 555130N 0373630E | UR UR | S086488 |
| | MOSKVA MOTOR VEHICLE PLANT LIKHACHEV | | 554146N 0373833E | UR | S086372 |
| | MOSKVA MISSILE PROD PLT FILI 23 CONST SUMMARY | | 554530N 0372928E | UR | S086305 |
| | MOSKVA MISSILE PRODUCTION PLANT FILI 23 | | 554530N 0372928E | UR | S086272 |
| | MOSKVA MISSILE PRODUCTION PLT FILI 23 SSM ACT | | 554530N 0372928E | UR | S086488 |
| | MOSKVA GUIDED MISSILE PLANT 41 CONST SUMMARY MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY | | 554939N 0373023E 555544N 0373027E 555544N 0373027E | UR UR UR | S086305 |
| | BRYANSK ROAD MACHINERY + GM SUPT EQUIP PLT 1 BRYANSK ROAD MACHINERY + GM SUPT EQUIP PLT 1 | | 531502N 0342419E 531502N 0342419E | UR UR | S086372 |
| | OREL ROAD MACHINERY/MISSILE SUPT EQUIP PLANT OREL ROAD MACHINERY/MISSILE SUPT EQUIP PLANT | | 525520N 0360132E 525520N 0360132E | UR UR | S086372 |

TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

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| WAC/BE | SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|--------|---|-----------|------------------|------|----------|
| | MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV | | 554547N 0375209E | UR | S086272 |
| | MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | | 554547N 0375209E | UR | S086488 |
| | MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV | | 554547N 0375209E | UR | S086272 |
| | MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | | 554547N 0375209E | UR | S086488 |
| | FAUSTOVO AEROSPACE R+D FACILITY | | 552746N 0383143E | UR | S086272 |
| | FAUSTOVO AEROSPACE R+D FACILITY SSM ACTIVITY | | 552746N 0383143E | UR | S086488 |
| | MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 | | 554227N 0374354E | UR | S086839 |
| | MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 | | 554527N 0374354E | UR | S086650 |
| | MOSKVA MISSILE ASSOCIATED INSTL SILO CONV | | 551143N 0363735E | UR | S086487 |
| | BRYANSK GUIDED MISSILE SUPPORT EQUIP PLANT 2 | | 531713N 0342352E | UR | S086372 |
| | MOSKVA ARMY BARRACKS AL42 + SIGNAL REGIMENT | | 555222N 0372840E | UR | S086840 |
| | BRONNITSY ARMORED VEHICLE RESEARCH FACILITY | | 552651N 0381427E | UR | S086372 |
| | POCHEP AIRFIELD LRA AIRCRAFT SUPPORT CPBL | | 525555N 0332400E | UR | S086827 |
| | BORISOV AVTOKOLONNA | | 541540N 0283030E | UR | S086652 |
| | OSIPOVICH I ARMY BKS SOUTH AL2 M-1977 MRL DPL | | 531727N 0283837E | UR | S086465 |
| | NOVOGRUDOK ARMY BARRACKS AL1 | | 533458N 0254745E | UR | S087000 |
| | MINSK MOTOR VEH + GM EQUIP PLANT VEH TEST FAC | | 535131N 0273931E | UR | S086445 |
| | MINSK MOTOR VEHICLE + GM SUPPORT EQUIP PLANT | | 535131N 0273931E | UR | S086372 |
| | MINSK MOTOR VEH + GM EQUIP PLANT VEH TEST FAC | | 535131N 0273931E | UR | S086445 |

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TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

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MINSK MOTOR VEHICLE + GM SUPPORT EQUIP PLANT

535131N 0273931E

UR

S086372

SVISLOCH PETROLEUM PRODUCTS STORAGE PUG
BERESTOVITSA PETROLEUM PRODUCTS STORAGE U/G

530010N 0240220E

UR

S087001

530542N 0235615E

UR

BOBRUYSK ORDNANCE DEPOT NNE D01

531210N 0291630E

UR

S086841

KAUNAS AIRCRAFT REPAIR BASE

545240N 0235500E

UR

S086564

BREST ENGINEER STORAGE FACILITY

520540N 0233815E

UR

S086724

PETROPAVLOVSK/YELIZOVO AIRFIELD COOT MODIFIED

531017N 1582711E

UR

S086505

CHITA ARMY BARRACKS NORTH AL2 + TRNG AREA 2
CHITA ARMY BARRACKS NORTH AL2 + TRNG AREA 2

520505N 1132920E

UR

S086651

520505N 1132920E

UR

TOP SECRET CHESS RUFF ZARF UMBRA

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| WAC/BE | SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|--------|---|-----------|------------------|------|----------|
| | ULAN UDE MILITARY BARRACKS AL3 REGT ABSENT | | 515111N 1075329E | UR | S086699 |
| | SOKHONDO AIRFIELD | | 515040N 1122850E | UR | S086354 |
| | DOMNA AIRFIELD FLOGGER MIG-23 | | 515500N 1130718E | UR | S086714 |
| | | | | | |
| | KHABAROVSK SHIPYARD USSURI SOUTH 876 ARD D | | 482405N 1350226E | UR | S086999 |
| | KHABAROVSK SHIPYARD USSURI SOUTH 143M ARD T | | 482405N 1350226E | UR | S086861 |
| | | | | | |
| | MILOVICE SA-6 TRNG SITE A02 FLAT FACE MODIF | | 501530N 0145335E | CZ | S086588 |
| | | | | | |
| | IVANO FRANKOVSK ARMY BARRACKS AL5 | | 485415N 0244005E | UR | S086853 |
| | GORODOK AIRFIELD NE LRA AIRCRAFT SUPPORT CPBL | | 494935N 0234130E | UR | S086687 |
| | PERVOMAYSK MILITARY INSTALLATION | | 480220N 0305110E | UR | S086856 |
| | ROVNO MILITARY SUPPLY DEPOT NORTH DQ1 | | 503749N 0261437E | UR | S086645 |
| | KHMELNITSKIY ARMY TRAINING AREA SE | | 492330N 0270200E | UR | S086844 |

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TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

WAC/BE

SUBJECT

IDHS CODE

COORD

COUN

ACCN NO.

SLAVUTA AMMUNITION DEPOT WEST DA1

501827N 0264902E

UR

S086657

BELAYA TSERKOV AIRFIELD MOSS TU-126

494749N 0300135E

UR

S086843

GOSTOMEL AIRFIELD LRA AIRCRAFT SUPPORT CPBL

503601N 0301143E

UR

S086825

DOLINSKAYA AIRFIELD LRA SUPPORT CAPABILITY

480130N 0324154E

UR

S086833

DNEPROPETROVSK MISSILE DPC SSM ACTIVITY

482601N 0345828E

UR

S086488

DNEPROPETROVSK MISSILE DPC CONST SUMMARY

482601N 0345828E

UR

S086305

KAMENSK SHAKHTINSKIY SOLID MOTOR PROD PLANT

481750N 0401049E

UR

S086678

PAVLOGRAD SOLID MOTOR PRODUCTION PLANT

483401N 0354912E

UR

S086673

PAVLOGRAD SOLID MOTOR ASBLY + TEST SUPT FACIL

482658N 0355723E

UR

S086685

KOCHUBEYEVKA AIRFIELD NO SIGNIFICANT CHANGE

494444N 0350132E

UR

S086831

VOLGOGRAD MILITARY TEST FACILITY 3

490006N 0443435E

UR

S086372

VOLGOGRAD MILITARY TEST FACILITY 1

485510N 0443119E

UR

S086671

KAPUSTIN YAR MTC RANGEHEAD TRKG FAC BOW/ARROW

483858N 0454538E

UR

S086671

VOLGOGRAD STEEL + MACH PLT KRASNYY BARRIKADA

484632N 0443449E

UR

S086372

TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

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| WAC/BE | SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|--------|---|-----------|------------------|------|----------|
| | ENGELS/LEBEDOVO AIRFIELD LRA SUPPORT CPBL | | 511712N 0461355E | UR | S086832 |
| | MAKAT ASM IMPACT AREA B RADAR TGTS/CRTRS NEW | | 480600N 0534400E | UR | S086506 |
| | ORENBURG GUIDED MISSILE PLANT 47 SSM ACTIVITY | | 514818N 0550802E | UR | S086488 |
| | ORENBURG GUIDED MISSILE PLT 47 CONST SUMMARY | | 514818N 0550802E | UR | S086305 |
| | EMBA MTC LAUNCH CPLX SPOON REST'D RDR VAN MTD | | 483103N 0580207E | UR | S086477 |
| | TYURATAM MTC TRACKING FACILITY 5 BOW + ARROW | | 515333N 0672113E | UR | S086671 |

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|---|------------------|----|---------|
| RUBTSOVSK TRACTOR PLANT ALTA 1 | 513222N 0811237E | UR | S086372 |
| SARY SHAGAN MTC R+D COMPLEX FACILITY A | 455045N 0733104E | UR | S086665 |
| SARY SHAGAN MTC PHASED-ARRAY RADAR FAC NORTH | 463600N 0743000E | UR | S086705 |
| SARY SHAGAN MTC COMPLEX B ABM-1B SILOS | 460106N 0722804E | UR | S086376 |
| SARY SHAGAN MTC COMPLEX E SA-X-10 TRAINING | 453745N 0723500E | UR | |
| TYURATAM MTC RANGEHEAD TRACKING FAC BOW/ARROW | 454230N 0632020E | UR | S086671 |
| TYURATAM MTC SPACE SITE U1/2 | 460214N 0630212E | UR | S086300 |
| TYURATAM MTC SPACE SITE U1/2 | 460214N 0630212E | UR | S086283 |
| MAYKOP ARMY BKS SOUTH MRD SECOND GENERATION | 443428N 0400732E | UR | S086656 |
| ROSTOV AIRCRAFT REPAIR BASE | 471546N 0394846E | UR | S086646 |
| ZAPOROZHYE AIRCRAFT REPAIR BASE | 475140N 0351750E | UR | S086563 |
| FEODOSIYA SHIPYARD YUZHAYA TOCHKA FAC NEW U/C | 450711N 0352953E | UR | S086862 |
| FEODOSIYA SHIPYARD YUZH-A CLASS PGHB NEW | 450711N 0352953E | UR | S086631 |
| NOVOCHERKASSK ARMY BARRACKS AL9 | 472430N 0400625E | UR | S086859 |

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TOP SECRET CHESS RUFF ZARF UMBRA

| WAC/BE | SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|--------|---|-----------|------------------|------|----------|
| | OKTYABRSKOYE AIRFIELD PRE-FLIGHT ACTIVITY | | 451930N 0340623E | UR | S086632 |
| | CHERVONO GLINSKOYE AIRFIELD FLAGON SU-15 | | 455650N 0292239E | UR | S086720 |
| | CONSTANTA/MIHAIL KOGALNICEANU AFLD RSBN-4N | | 442131N 0282920E | RO | S086589 |
| | BATAJNICA AIRFIELD AIRCRAFT BUNKERS | | 445630N 0201500E | YO | S086643 |
| | SZOMBATHELY AMMUNITION DEPOT KOSZEG 501 | | 472008N 0163550E | HU | S087002 |
| | ZAGREB AIRFIELD AIRCRAFT BUNKERS | | 454435N 0160413E | YO | S086647 |
| | CERKLJE AIRFIELD AIRCRAFT BUNKERS | | 455401N 0153155E | YO | S086566 |
| | PULA AIRFIELD AIRCRAFT BUNKERS | | 445340N 0135520E | YO | S086641 |
| | ZADAR AIRFIELD AIRCRAFT BUNKERS | | 440552N 0152124E | YO | S086567 |
| | TUZLA AIRFIELD AIRCRAFT BUNKERS | | 442730N 0184330E | YO | S086565 |
| | DOLINSK/SOKOL AIRFIELD FLAGON SU-15 COUNTS | | 471536N 1424617E | UR | S086828 |
| | ARSENYEV AIRFRAME PLANT 116 CONST SUMMARY | | 440859N 1331523E | UR | S086305 |
| | VARFOLOMEYEVKA ARMY BARRACKS AL1 | | 441608N 1332402E | UR | S086721 |
| | CHICHIHAERH ARMS + AMMUNITION PARTS PLANT 127 | | 472003N 1235832E | CH | S086481 |
| | PAICHENG ARMY BARRACKS NORTH AL5 | | 453910N 1225015E | CH | S086582 |
| | ULAAN UUL MILITARY TRNG AREA JOINT TRNG EXER | | 443051N 1111151E | MG | S086696 |
| | SUMBER SUMA MILITARY BKS AL1 MT-LB SAM TEL | | 462048N 1082410E | MG | S086688 |
| | SUMBER SUMA MILITARY BKS AL1 MT-LB SAM TEL | | 462048N 1082410E | MG | |
| | ARVAYHEER HELIPORT CURL AN-26/CRATE IL-14 | | 462100N 1025000E | MG | S086698 |
| | ARVAYHEER ARMY BKS AL1 RSV EQUIP ACTIVATED | | 462200N 1024800E | MG | |

TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS' RUFF ZARF UMBRA

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| WAC/BE | SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|--------|--|-----------|------------------|------|----------|
| | MANDALGOVI MILITARY INSTALLATION MRD MBLZTN | | 454459N 1061443E | MG | S086697 |
| | HSIMIAO ARMY BARRACKS AL1 | | 410120N 1001312E | CH | S086538 |
| | SHUANGCHENG TZU ARMY BARRACKS AL1 | | 410650N 1001650E | CH | S086541 |
| | SHUANGCHENG TZU WEAPONS POSITIONS | | 420318N 1012212E | CH | S086548 |
| | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 1 | | 421851N 1010654E | CH | S086550 |
| | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 2 | | 415310N 1003327E | CH | S086546 |
| | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 3 | | 415610N 1010140E | CH | S086547 |
| | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 4 | | 414323N 1002727E | CH | S086545 |
| | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 5 | | 414557N 1004208E | CH | S086544 |
| | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 6 | | 420703N 1005405E | CH | S086549 |
| | SHUANGCHENG TZU SPECIAL DEFENSE MOUND 8 | | 402546N 0995046E | CH | S086539 |
| | SHUANGCHENG TZU ARMY BARRACKS AL2 | | 410631N 1002025E | CH | S086542 |
| | SHUANGCHENG TZU DEFENSIVE STRONGPOINT | | 411613N 1002013E | CH | S086543 |
| | HSIMIAO ARMY BARRACKS AL2 | | 410025N 1001310E | CH | S086540 |
| | OCHINACHI DEFENSIVE STRONGPOINT | | 422040N 1011400E | CH | S086551 |
| | SHUANGCHENG TZU MILITARY AREA | | 4130 N 10030 E | CH | S086537 |
| | SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | | 410800N 1001500E | CH | S086376 |
| | SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | | 410800N 1001500E | CH | |
| | TUNGLIAO ARMY BARRACKS SW AL7 | | 433520N 1221415E | CH | S086581 |
| | HAICHENG ARMY BARRACKS NNE AL7 | | 405148N 1224519E | CH | S086574 |
| | CHINCHOU MILITARY AREA 2 | | 4107 N 12111 E | CH | S086553 |
| | CHINCHOU MILITARY BARRACKS AL5 + HQ ARTY DIV | | 410744N 1211059E | CH | S086554 |

25X15X1

TOP SECRET CHESS' RUFF ZARF UMBRA

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

| WAC/BE | SUBJECT | IDHS CODE | COORD | COUN | ACCN NO. |
|--------|---|-----------|------------------|------|----------|
| | PEICHEN ARMY BARRACKS AL1 | | 413607N 1214655E | CH | S086555 |
| | HEISHAN ARMY BARRACKS AL1 | | 414115N 1220640E | CH | S086556 |
| | PANSHIH ARMY BARRACKS SOUTH AL2 | | 425150N 1260250E | CH | S086561 |
| | HAILUNG ARMY BARRACKS WEST AL3 | | 423847N 1254839E | CH | S086560 |
| | PANSHIH MILITARY AREA 1 | | 4256 N 12604 E | CH | S086557 |
| | LIAOYANG MILITARY AREA 1 | | 4116 N 12310 E | CH | S086572 |
| | SSUPING MILITARY AREA 1 | | 4310 N 12420 E | CH | S086579 |
| | SSUPING MILITARY BKS AL1/HQ ANTITANK ARTY DIV | | 431024N 1242105E | CH | S086580 |
| | LIAOYANG ARMY BARRACKS AL2 + HQ ARTILLERY DIV | | 411443N 1230827E | CH | S086573 |
| | HUINAN ARMY BARRACKS WEST AL1 | | 424103N 1255943E | CH | S086559 |
| | PANSHIH ARMY BARRACKS SE AL1 + HQ ARTY DIV | | 425604N 1260424E | CH | S086558 |
| | SSUPING ARMY BARRACKS EAST AL5 TANK TRSHPMT | | 430656N 1244257E | CH | S086471 |
| | DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPSN | | 425400N 1322110E | UR | S086302 |
| | DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPSN | | 425400N 1322110E | UR | |
| | VLADIVOSTOK TV TRANSMITTER STATION 1 | | 430704N 1315501E | UR | S086727 |
| | VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER | | 430657N 1315340E | UR | |
| | VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER | | 430657N 1315340E | UR | |
| | BERAT/STALIN AIRFIELD AIRCRAFT BUNKERS | | 404625N 0195405E | AL | S086570 |
| | TITOGRAD INTERNATIONAL AIRFIELD AIRCRAFT BKRS | | 422130N 0191507E | YO | S086642 |
| | OB RVA AIRFIELD AIRCRAFT BUNKERS | | 434915N 0203509E | YO | S086648 |
| | KALININO AIRFIELD LRA SUPPORT CAPABILITY | | 410630N 0441600E | UR | S086829 |

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

WAC/BE

SUBJECT

IDHS CODE

COORD

COUN

ACCN NO.

TASHKENT AIRFIELD CANDID IL-76 LIBYAN/IRAQI

411846N 0692331E

UR

S086691

ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I

430910N 0762330E

UR

S086837

ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I

431211N 0763603E

UR

S086836

HOCHING ARMY BARRACKS AL2 ARMOR DPL NEW

422050N 0862245E

CH

S086693

MARY SAM SUPPORT FACILITY 2

373510N 0615130E

UR

S086713

MARY SAM SUPPORT FACILITY 3 SA-6 ACTIVITY

373500N 0615130E

UR

WONSAN RADIO RELAY STATION R-600

390745N 1272430E

KN

S086475

TALACHIH AIRFIELD FANTAN A F-9 IDENTIFICATION

363740N 1050004E

CH

S086633

LOYANG MOTOR VEHICLE PLANT NORTH HSICHENGLIU

350450N 1122541E

CH

S086860

BISKRA AIRFIELD HIND A MI-24/SHPG CONTS IDENT

344736N 0054417E

AG

S086689

TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C

320455N 0235850E

LY

S086376

TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C

320455N 0235850E

LY

TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C

320455N 0235850E

LY

H-3 AIRFIELD CONSTRUCTION ACTIVITY

325616N 0394444E

IZ

S086672

TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

WAC/BE

SUBJECT

IDHS CODE

COORD

COUN ACCN NO.

RANGAO ARMY BARRACKS AL1
 PANGTA ENGINEER BARRACKS AL1
 KUNGKA MILITARY VEHICLE MAINTENANCE/STGE DPO
 LASA MILITARY BARRACKS AL4 + HQ TIBET MD
 LASA ARMY BARRACKS SOUTH AL2
 KOTA ARMY BARRACKS AL1
 LINCHIH ARMY BARRACKS AL1
 CHUEHMU ARMY BARRACKS/DEPOT/SUPPORT AREA
 CHUEHMU ARMY BARRACKS/DEPOT/SUPPORT AREA
 LASA ARMY BARRACKS WEST AL5
 LINCHIH ARMY BARRACKS AL2
 TSUMUTSUNG ARMY BARRACKS NW + HQ DIVISION
 DZEM ARMY BARRACKS AL1
 KUNGPUCHIANGTA ARMY BARRACKS AL1
 LASA ARMY MOTOR TRANSPORT BARRACKS + STGE AL7
 LASA ARMY MOTOR TRANSPORT BARRACKS + STGE AL7
 OLANG MILITARY BARRACKS AREA
 MILIN ARMY BARRACKS AL2
 KANGKO MILITARY BARRACKS AREA
 DZEM ARMY BARRACKS AL2

YANGPACHING GEOTHERMAL POWER STATION

CHUEHNEIHSI MILITARY BARRACKS AREA
 JIHKOTSE ARMY BARRACKS AL4
 CHUANTU MILITARY BARRACKS AREA
 JIHKOTSE ARMY BARRACKS AL2
 CHIANGTZU ARMY BARRACKS
 CHIANGTZU ARMY BARRACKS NW
 JIHKOTSE MILITARY AREA EAST
 JIHKOTSE ARMY BARRACKS AL3

294445N 0960650E CH S086583
 303338N 0970638E CH
 291647N 0910108E CH
 293846N 0910740E CH
 293755N 0910830E CH
 295133N 0954557E CH
 292951N 0942727E CH
 294028N 0942040E CH
 294028N 0942040E CH
 293827N 0910141E CH
 293353N 0942906E CH
 294543N 0941521E CH
 294749N 0935803E CH
 295310N 0931425E CH
 293912N 0910312E CH
 293912N 0910312E CH
 290820N 0934218E CH
 291120N 0940322E CH
 291922N 0942330E CH
 294845N 0935010E CH

300321N 0902939E CH S086492
 284220N 0893825E CH S086583
 291900N 0890210E CH
 282620N 0893530E CH
 291456N 0885247E CH
 285500N 0893620E CH
 285702N 0893130E CH
 292001N 0885803E CH
 291540N 0885205E CH

TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

WAC/BE

SUBJECT

IDHS CODE

COORD

COUN

ACCN NO.

BANDAR E SHAHPUR PORT FACILITIES ACT DECREASE
KHORRAMSHAHR PORT FACILITIES DISRUPTIONS302520N 0490450E IR
302615N 0480910E IR

S086312

SHAIBAH AIRFIELD HIND D MI-24 IDENTIFICATION

302535N 0473842E IZ

S086466

GULF OF SOLLUM ANCHORAGE SOVIET NAVAL UNITS

314700N 0253500E EG

S086630

AL ISKANDARIYAH PORT FACILITIES

311140N 0295255E EG

S086552

KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD
KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD295246N 1220033E CH
295246N 1220033E CH

S086370

TAHSIEN NAVAL FACILITIES APPROACHES

2953 N 12157 E CH

S086369

NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD
NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD
NANCHANG AIRFRAME + MSL PLANT CR MSL CRT PROD283752N 1155526E CH
283752N 1155526E CH
283752N 1155526E CH

S086482

LIENKENGWANG IRBM SITE 4
LIENKENGWANG IRBM SITE 5
LIENKENGWANG IRBM SITE 6
LIENKENGWANG IRBM SITE 8300202N 1173634E CH
300636N 1173433E CH
300846N 1173421E CH
300446N 1173443E CH

S086333

MIENYANG MILITARY BARRACKS + STORAGE AREA
MIENYANG MILITARY BARRACKS + STORAGE AREA313000N 1044535E CH
313000N 1044535E CH

S086584

CHENG TU AIRCRAFT ENGINE PLANT 420

303858N 1040653E CH

S086489

TIENWEI MTC SSM

255520N 1024928E CH

S087005

LIUCHOU AIRFIELD BEAGLE IL-28/BAT TU-2 DPL

241638N 1092304E CH

S086464

SHARM ASH SHAYKH PORT FAC SPECIAL-PURPOSE AKL

275110N 0341715E EG

S086670

BANDAR ABBAS PORT FACILITIES

271039N 0561602E IR

S086312

YATUNG MILITARY COMPOUND
JENCHINGKANG STRONGPOINT 1
JENCHINGKANG STRONGPOINT 2
PIPITANG MILITARY STORAGE AREA272808N 0885440E CH
272608N 0885426E CH
272548N 0885524E CH
272710N 0885500E CH

S086583

TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

WAC/BE

SUBJECT

IDHS CODE

COORD

COUN

ACCN NO.

YATUNG MILITARY ACTIVITY

272915N 0885428E CH

25X1

PUNTA MOVIDA NAVAL FACILITY PROB CONST ACT

220315N 0802640W CU S086663

DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP

160233N 1081215E VM S086690

DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP

160233N 1081215E VM

DA NANG AIRFIELD ARMS DELIVERY SOV/SA-3 EQUIP

160233N 1081215E VM

ADEN AMMUNITION STGE + TEST AREA M-1977 MRL

124745N 0450155E YS S086707

ADEN AMMUNITION STGE + TEST AREA M-1977 MRL

124745N 0450155E YS

MBARARA ARMY BARRACKS BATTLE DAMAGE

003430S 0304140E UG S086786

TETE CHINGOZI AIRFIELD COMBAT DAMAGE

160612S 0333820F MZ S086467

TETE CHINGOZI AIRFIELD COMBAT DAMAGE

160612S 0333820E MZ

ONDANGUA AIRFIELD AIRCRAFT INCREASE

175300S 0155800E WA S086695

25X1

FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC
FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC340420S 0184530E SF S086375
340420S 0184530E SF

25X1

94
TOP SECRET CHESS RUFF ZARF UMBRA

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PART VI

Listing of Reports by Accession Number

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

AF PAR 740-78 26 DEC 78 SEC CLASS: 13 MSN: 0005P ACCN: S086272 25X1

MISSILES, AAM COMPONENTS/HARDWARE

WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40J COMIREX NO:
 MOSKVA MISSILE PRODUCTION PLANT FILI 23 UR 554530N 0372928E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 46-I
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-N
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-N
 IDHS CODE: EPF CAT : 40H COMIREX NO:
 FAUSTOVO AEROSPACE R+D FACILITY UR 552746N 0383143E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-N
 IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1
25X125X1
25X125X1
25X125X1
25X1

THIS REPORT PRESENTS THE RESULTS OF A SEARCH FOR THE POSSIBLE EXISTENCE OF AIR-TO-AIR MISSILES/COMPONENTS/HARDWARE WITHIN FAUSTOVO AEROSPACE R+D FACILITY, MOSKVA GUIDED MISSILE AND SPACE RESEARCH CENTER REUTOV, AND MOSKVA MISSILE PRODUCTION PLANT FILI 23. THESE FACILITIES WERE REVIEWED EVERY SIX MONTHS. INCLUDED IN THE REPORT IS A CHART WHICH SHOWS KNOWN AIR-TO-AIR MISSILE SIZES/SHIPPING CRATES FOR SIZE REFERENCE. ALSO INCLUDED ARE UNIDENTIFIED AIR-TO-AIR MISSILE SIZES/SHIPPING CRATES.*

25X1

AF PAR 735-78 26 DEC 78 SEC CLASS: 13 MSN: 0016P ACCN: S086273 25X1

ELECTRONICS, ICBM TYPE 3H GUIDANCE RLTD FACS

WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS REPORT PROVIDES AN UPDATED ANALYSIS OF THE GUIDANCE RELATED FACILITIES AT YEDROVO ICBM LAUNCH GROUPS I AND L (20 SITES). IT FURTHER PROVIDES ANALYSIS OF THE GUIDANCE RELATED FACILITIES PRIOR TO AND AFTER RECONFIGURATION OF THE SITES IN YEDROVO ICBM LAUNCH GROUP J (10 SITES), KOSTROMA ICBM LAUNCH GROUP I (10 SITES), AND TYURATAM ICBM LAUNCH TEST SITES V1, V2, V3, V4, AND V5.
 THE REPORT SUPERSEDES PAR 76-697, AND INCORPORATES INFORMATION FROM PAR 77-692. A LISTING OF THE AZIMUTHS AND DISTANCES (IN METERS) OF THE MARKERS FROM THE CENTER OF THE SILO FOLLOWS EACH LAUNCH SITE DESCRIPTION, WHERE APPLICABLE.*

AF ENDR E6547-78 25 OCT 78 SEC CLASS: 13 MSN: 0001P ACCN: S086283 25X1

TYURATAM MTC SPACE SITE U1/2

WAC NO : 0246 BE/OBJ NO: NPIC NO : - 6-Y7

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

IDHS CODE:

EPF CAT : 40H

COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PARS 78-712 AND 74-606.*

AF ENDR D6554-1-78 15 JAN 79 SEC CLASS: 13 MSN: 0001P

ACCN: S086284 25X1

MISSILES, SS-11 PROPELLANT TRANSFER FAC MODIF

UR

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 40A

COMIREX NO:

25X1

AF PAR 712-78 20 DEC 78 SEC CLASS: 13 MSN: 0015P

ACCN: S086300 25X1

TYURATAM MTC SPACE SITE U1/2

UR 460214N 0630212E

WAC NO : 0246

BE/OBJ NO:

NPIC NO : - 6-Y7

IDHS CODE:

EPF CAT : 40H

COMIREX NO:

25X1
25X1

THIS REPORT PROVIDES AN UPDATED ANALYSIS OF TYURATAM MISSILE TEST CENTER LAUNCH FACILITY U1 AND U2. IT INCLUDES A DESCRIPTION OF NEW CONSTRUCTION, A LISTING OF RECURRING PRELAUNCH AND POSTLAUNCH ACTIVITIES, AND A FACILITIES COMPARISON TO LAUNCH SITE G3 AND G4.

ADDITIONAL REFERENCES INCLUDE FTD DRAWINGS 78E6547, 78E6548, 74D3508, 78E6545, 69C4538, 74E6511, 74D4514, 74D3505, 77E1516, PARS 74-606 AND 77-659, AND BIIR RFB22/0018/75.*

25X1

96
TOP SECRET CHESS RUFF ZARF UMBRA

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

25X1

CIA INFR IS10015K-79 29 JAN 79 SEC CLASS: 13 MSN: 0006P ACCN: 5086302 25X1

DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPSN UR 425400N 1322110E
WAC NO : 0291 BE/OBJ NO: NPIC NO : - 4-C
IDHS CODE: EPF CAT : 75A COMIREX NO:
DUNAY SUBMARINE BASE + SHIP REPAIR YARD EXPSN UR 425400N 1322110E
WAC NO : 0291 BE/OBJ NO: NPIC NO : - 4-C
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1

25X1

25X1

25X1

DUNAY SUBMARINE BASE AND SHIP REPAIR YARD RAZBOYNIK BAY -- A SMALL PACIFIC FLEET REPAIR BASE WHICH HAS BEEN INVOLVED IN THE REFITTING AND REFUELING OF NUCLEAR-POWERED SUBMARINES -- IS CURRENTLY UNDERGOING MAJOR EXPANSION THAT WILL PROBABLY PROVIDE IT WITH THE CAPABILITY TO PERFORM COMPLETE SUBMARINE OVERHAULS. IF THIS EXPANSION PROCEEDS ACCORDING TO OIA'S EXPECTATIONS, RAZBOYNIK BAY WILL BECOME THE ONLY PACIFIC FLEET REPAIR FACILITY WHICH CAN OVERHAUL D-II AND D-III-CLASS NUCLEAR-POWERED BALLISTIC MISSILE SUBMARINES (SSBNs).

EXPANSION OF FACILITIES AT RAZBOYNIK BAY INCLUDES: CONSTRUCTION OF A LARGE SHOP/ENGINEERING BUILDING WHICH IS ABOUT 50 PERCENT COMPLETE; EXTENSIVE EXCAVATION ACTIVITY IN PREPARATION FOR THE POSSIBLE CONSTRUCTION OF AN ON-LAND, COVERED REPAIR HALL; DREDGING OF A POSSIBLE SUBMERGING TRENCH FOR A FLOATING DRYDOCK; THE BASING AT RAZBOYNIK BAY OF A LARGE, JAPANESE-BUILT FLOATING DRYDOCK; AND THE CONSTRUCTION OF NEW APARTMENTS, A SUBSTATION, AND A RAIL SPUR TO SERVE THE FACILITY.

25X1

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

25X1

CIA INFR IS10018J-79 06 FEB 79

SEC CLASS: 25AX MSN:

0025P

ACCN: 5086305 25X1

MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY UR 555544N 0373027E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-J
IDHS CODE: EPF CAT : 40E COMIREX NO:
MOSKVA GUIDED MSL + A/C PLT 464 CONST SUMMARY UR 555544N 0373027E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 58-J
IDHS CODE: EPF CAT : 05G COMIREX NO:
MOSKVA GUIDED MISSILE PLANT 41 CONST SUMMARY UR 554939N 0373023E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 46-L1
IDHS CODE: EPF CAT : 40E COMIREX NO:
KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY UR 583834N 0493709E
WAC NO : 0155 BE/OBJ NO: NPIC NO : - 5-N1
IDHS CODE: EPF CAT : 40E COMIREX NO:
KIROV MISSILE + A/C CMPNTS PLT CONST SUMMARY UR 583834N 0493709E
WAC NO : 0155 BE/OBJ NO: NPIC NO : - 5-N1
IDHS CODE: EPF CAT : 05G COMIREX NO:
KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY UR 562208N 0411934E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 30-A
IDHS CODE: EPF CAT : 40E COMIREX NO:
KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY UR 562208N 0411934E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 30-A
IDHS CODE: EPF CAT : 30C COMIREX NO:
KOVROV GUIDED MSL/MACH/ARMS PLT CONST SUMMARY UR 562208N 0411934E

25X1
25X1

25X1
25X1

25X1
25X1

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25X1

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25X1

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25X1

25X1
25X25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

WAC NO : 0154 BE/OBJ NO: NPIC NO : - 30-A
IDHS CODE: EPF CAT : 35G COMIREX NO:
SVERDLOVSK GUIDED MISSILE PLT 8 CONST SUMMARY UR 565213N 0603707E
WAC NO : 0156 BE/OBJ NO: NPIC NO : - 26-C
IDHS CODE: EPF CAT : 40E COMIREX NO:
LENINGRAD GUIDED MSL PLANT 458 CONST SUMMARY UR 595934N 0301721E
WAC NO : 0153 BE/OBJ NO: NPIC NO : - 36-U1
IDHS CODE: EPF CAT : 40E COMIREX NO:
VOTKINSK MISSILE ASBLY/CHECKOUT CONST SUMMARY UR 570224N 0540830E
WAC NO : 0155 BE/OBJ NO: NPIC NO : - 13-F
IDHS CODE: EPF CAT : 40E COMIREX NO:
VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY UR 570242N 0535903E
WAC NO : 0155 BE/OBJ NO: NPIC NO : - 13-B
IDHS CODE: EPF CAT : 40E COMIREX NO:
VOTKINSK MISSILE/MACH/STEEL PLT CONST SUMMARY UR 570242N 0535903E
WAC NO : 0155 BE/OBJ NO: NPIC NO : - 13-B
IDHS CODE: EPF CAT : 30C COMIREX NO:
KRASNOYARSK ARMS PLT VOROSHILOV CONST SUMMARY UR 560054N 0925913E
WAC NO : 0159 BE/OBJ NO: NPIC NO : - 7-C
IDHS CODE: EPF CAT : 35G COMIREX NO:
ZLAToust ARMAMENT PLANT 66 CONST SUMMARY UR 550617N 0594223E
WAC NO : 0164 BE/OBJ NO: NPIC NO : - 22-F
IDHS CODE: EPF CAT : 35G COMIREX NO:
ARSENIEV AIRFRAME PLANT 116 CONST SUMMARY UR 440859N 1331523E
WAC NO : 0282 BE/OBJ NO: NPIC NO : - 44
IDHS CODE: EPF CAT : 05G COMIREX NO:
IVANKOVSKIY GUIDED MISSILE PLT CONST SUMMARY UR 564521N 0370700E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 1A-A
IDHS CODE: EPF CAT : 40E COMIREX NO:
ORENBURG GUIDED MISSILE PLT 47 CONST SUMMARY UR 514818N 0550802E
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 2-B
IDHS CODE: EPF CAT : 40E COMIREX NO:
OMSK AIRFRAME PLANT 166 CONSTRUCTION SUMMARY UR 545759N 0732748E
WAC NO : 0163 BE/OBJ NO: NPIC NO : - 5-A
IDHS CODE: EPF CAT : 05G COMIREX NO:
MOSKVA MISSILE PROD PLT FILI 23 CONST SUMMARY UR 554530N 0372928E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 46-I
IDHS CODE: EPF CAT : 40E COMIREX NO:
DNEPROPETROVSK MISSILE DPC CONST SUMMARY UR 482601N 0345828E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 7-C
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X125X1
25X125X1
25X125X1
25X125X1
25X125X1
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25X125X1
25X125X1
25X125X1
25X1

THIS PAPER UPDATES AN EARLIER OIA STUDY TO DETERMINE GENERAL GROWTH PATTERNS OF THAT PART OF THE SOVIET

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

MISSILE INDUSTRY INVOLVED IN THE SERIES PRODUCTION OF SLBMS, SSMS, AND CRUISE MISSILES. ONE OF THE ORIGINAL 11 PLANTS, DNEPROPETROVSK PLANT 192, IS EXCLUDED FROM THIS MEMORANDUM BECAUSE IT IS NOT INVOLVED IN MISSILE AIRFRAME PRODUCTION AND, SIX ADDITIONAL PLANTS, ALL INVOLVED WITH SAM AIRFRAME PRODUCTION, HAVE BEEN ADDED. A BRIEF DESCRIPTION OF THE PLANT AND ITS REPORTED PRODUCTION AND A TABLE LISTING THE CONSTRUCTION CHRONOLOGY OF MAJOR FABRICATION/ASSEMBLY BUILDINGS SINCE 1963 ARE INCLUDED FOR EACH PLANT.

25X1

25X1

CIA INFR IS10009J-79 25 JAN 79 SEC CLASS: 24 MSN: 0003P ACCN: S086311 25X1

MILITARY, GROUND FORCES WESTERN MD EG
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35 COMIREX NO:

ANALYSIS OF PHOTOGRAPHY, OF EGYPTIAN MILITARY UNITS IN THE WESTERN
MILITARY DISTRICT REVEALED ADDITIONAL MILITARY UNITS NOT INCLUDED IN A PREVIOUS OIA STUDY,

25X1

25X1

CIA INFR IS10011K-79 29 JAN 79 SEC CLASS: 13 MSN: 0003P ACCN: S086312 25X1

TRANSPORTATION, ACTIVITY DISRUPTION SOV BDR IR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 85 COMIREX NO:
BANDAR ABBAS PORT FACILITIES IR 271039N 0561602E
WAC NO : 0548 BE/OBJ NO: NPIC NO : - 1
IDHS CODE: EPF CAT : 75I COMIREX NO:
BANDAR E SHAHPUR PORT FACILITIES ACT DECREASE IR 302520N 0490450E

25X1

225X1

100
TOP SECRET CHESS RUFF ZARF UMBRA

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

| | | |
|---|---------------|---------------------|
| WAC NO : 0444 | BE/OBJ NO: | NPIC NO : - 7-B |
| IDHS CODE: | EPF CAT : 751 | COMIREX NO: |
| ASTARA RTP ACTIVITY INCREASE | | IR 3826 N 04852 E |
| WAC NO : 0339 | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 85A | COMIREX NO: |
| ASTARA RTP ACTIVITY INCREASE | | IR 3826 N 04852 E |
| WAC NO : 0339 | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 85B | COMIREX NO: |
| JOLFA RAIL TRANSSHIPMENT POINT ACT DECREASE | | IR 3857 N 04538 E |
| WAC NO : 0340 | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 85B | COMIREX NO: |
| KHORRAMSHAHR PORT FACILITIES DISRUPTIONS | | IR 302615N 0480910E |
| WAC NO : 0444 | BE/OBJ NO: | NPIC NO : - 9-B |
| IDHS CODE: | EPF CAT : 751 | COMIREX NO: |

25X1
25X25X1

25X1

25X1

25X1

25X1
25X1

25X1

25X1

25X1

101
TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

25X1

NPIC MEMO 01 FEB 79 SEC CLASS: 13 MSN: 0001P ACCN: S086354 25X1
SOKHONDO AIRFIELD UR 515040N 1122850E
WAC NO : 0201 BE/OBJ NO: NPIC NO : - 14 25X1
IDHS CODE: EPF CAT : 05A COMIREX NO: 25X1
DIA NBRG NDA06-5139-77 20 FEB 79 SEC CLASS: 056 MSN: 0001P ACCN: S086369
TAHSIEN NAVAL FACILITIES APPROACHES CH 2953 N 12157 E
WAC NO : 0492 BE/OBJ NO: NPIC NO : - 25X1
IDHS CODE: EPF CAT : 75 COMIREX NO: 25X1
DIA NBRG NDA06-5140-77 20 FEB 79 SEC CLASS: 056 MSN: 0001P ACCN: S086370
KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD CH 295246N 1220033E
WAC NO : 0492 BE/OBJ NO: NPIC NO : - 44-A 25X1
IDHS CODE: EPF CAT : 75B COMIREX NO: 25X1
KUANCHUANGTSUN MOTOR TORPEDO BOAT BASE/SHPYD CH 295246N 1220033E
WAC NO : 0492 BE/OBJ NO: NPIC NO : - 44-A 25X1
IDHS CODE: EPF CAT : 75E COMIREX NO: 25X1

25X1

25X1

102
TOP SECRET CHESS RUFF ZARF UMBRA

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[Redacted]

TOP SECRET CHESS RUFF ZARF UMBRA [Redacted]

[Redacted]

25X1

[Large Redacted Block]

25X1

CIA IRP IS10013K-79 JAN 79 [Redacted] SEC CLASS: 14 MSN: 0009P ACCN: S086375 25X1
FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC SF 340420S 0184530E
WAC NO : 1422 BE/OBJ NO: [Redacted] NPIC NO : - 25X1

104
TOP SECRET CHESS RUFF ZARF UMBRA [Redacted]

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 FIRGROVE ROCKET/EXPLOSIVES/PROPELLANT R+D FAC SF 340420S 0184530E
 WAC NO : 1422 BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 356 COMIREX NO: []

25X1

25X1

25X1

CIA NOTE ISSN0002J-79 12 FEB 79 [] SEC CLASS: 25 X MSN: 0020P ACCN: S086376

25X1

TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C LY 320455N 0235850E
 WAC NO : 0424 BE/OBJ NO: [] NPIC NO : - 6
 IDHS CODE: [] EPF CAT : 75B COMIREX NO: []
 TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C LY 320455N 0235850E
 WAC NO : 0424 BE/OBJ NO: [] NPIC NO : - 6
 IDHS CODE: [] EPF CAT : 75I COMIREX NO: []
 TUBRUQ PORT FACILITIES NAVAL SHIP RPR FAC U/C LY 320455N 0235850E
 WAC NO : 0424 BE/OBJ NO: [] NPIC NO : - 6
 IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
 MILITARY, ARMS + TECH ASSISTANCE NORTH KOREAN LY
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 35 COMIREX NO: []
 GOLERKANY CIVIL DEFENSE GOVERNMENT RELOC SITE UR 4719 N 02905 E
 WAC NO : 0250 BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 10A COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

INDUSTRY, PETROLEUM REFINING DEVELOPMENTS UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 30B COMIREX NO: []

25X1

MILITARY, MOTORIZED RIFLE BNS BTR-60PB COUNTS UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 35E COMIREX NO: []

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

| | | |
|--|---------------|------------------|
| SEVERODVINSK SHIPYARD 402 LAUNCH BASIN OPRTNL | UR | 643438N 0394832E |
| WAC NO : 0092 | BE/OBJ NO: | NPIC NO : - 7-A |
| IDHS CODE: | EPF CAT : 75E | COMIREX NO: |
| SHIPS, V-3 CLASS SSN | | UR |
| WAC NO : | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 75D | COMIREX NO: |
| SARY SHAGAN MTC COMPLEX E SA-X-10 TRAINING | UR | 453745N 0723500E |
| WAC NO : 0245 | BE/OBJ NO: | NPIC NO : - 40-B |
| IDHS CODE: | EPF CAT : 40C | COMIREX NO: |
| SARY SHAGAN MTC COMPLEX B ABM-1B SILOS | UR | 460106N 0722804E |
| WAC NO : 0245 | BE/OBJ NO: | NPIC NO : - 50-B |
| IDHS CODE: | EPF CAT : 40D | COMIREX NO: |
| SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | CH | 410800N 1001500E |
| WAC NO : 0287 | BE/OBJ NO: | NPIC NO : - 1 |
| IDHS CODE: | EPF CAT : 40A | COMIREX NO: |
| SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS | CH | 410800N 1001500E |
| WAC NO : 0287 | BE/OBJ NO: | NPIC NO : - 1 |
| IDHS CODE: | EPF CAT : 40H | COMIREX NO: |

CIA IRP IS10008J-79 FEB 79 SEC CLASS: 25B MSN: 0023P ACCN: S086444

MILITARY, SIGNAL REGIMENTS DPL/ORG/EQUIPMENT

WAC NO : BE/OBJ NO: NPIC NO : -

IDHS CODE: EPF CAT : 35 COMIREX NO:

TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

25X1

25X1

AF ENDR D1001-79 18 JAN 79 SEC CLASS: 05 MSN: 0001P ACCN: S086473

MISSILES, AS-4 + VARIANT
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40J

UR
NPIC NO : -
COMIREX NO:

110
TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

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TOP SECRET CHESS RUFF ZARF UMBRA

25X1

THIS DRAWING SUPERSEDES DRAWING 78C1024.*

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TOP SECRET CHESS RUFF ZARF UMBRA

25X1

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TOP SECRET CHESS RUFF ZARF UMBRA

25X1

25X1

NPIC SR

SR011-79

MAR 79

SEC CLASS: 05B MSN:

0006P

ACCN: S086484

113

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

TRANSPORTATION, RAIL TRANSLOADING FACILS MIL PL
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 85B COMIREX NO:
MILITARY, RAIL TRANSLOADING FACILITIES PL
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS REPORT IS A TABULATION OF THE 23 MILITARY TRANSLOADING FACILITIES IN POLAND
THESE FACILITIES ARE WITHIN A FEW MILES OF THE POLISH-SOVIET BORDER. THEY ARE
GENERALLY ISOLATED, SITUATED ON MAJOR EAST/WEST RAIL LINES, AND APPEAR TO SERVE AS TRANSFER POINTS BETWEEN
WIDE AND STANDARD GAUGE RALS.

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

25X1

NPIC BIIR RCA09-0005-79 MAR 79 SEC CLASS: 25B MSN: 0024P ACCN: 5086488 25X1

| | | | |
|---|---------------|-------------------|------|
| VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | UR | 570242N 0535903E | |
| WAC NO : 0155 | BE/OBJ NO: | NPIC NO : - 13-B | 25X1 |
| IDHS CODE: | EPF CAT : 40 | COMIREX NO: | 25X1 |
| VOTKINSK MISSILE/MACH/STEEL PLANT 235 SSM ACT | UR | 570242N 0535903E | |
| WAC NO : 0155 | BE/OBJ NO: | NPIC NO : - 13-B | 25X1 |
| IDHS CODE: | EPF CAT : 30C | COMIREX NO: | 25X1 |
| VOTKINSK MISSILE ASBLY/CHECKOUT FACIL SSM ACT | UR | 570224N 0540830E | |
| WAC NO : 0155 | BE/OBJ NO: | NPIC NO : - 13-E | 25X1 |
| IDHS CODE: | EPF CAT : 40E | COMIREX NO: | 25X1 |
| ORENBURG GUIDED MISSILE PLANT 47 SSM ACTIVITY | UR | 514818N 0550802E | |
| WAC NO : 0236 | BE/OBJ NO: | NPIC NO : - 2-B | 25X1 |
| IDHS CODE: | EPF CAT : 40E | COMIREX NO: | 25X1 |
| MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | UR | 555130N 0373630E | |
| WAC NO : 0167 | BE/OBJ NO: | NPIC NO : - 45-B2 | 25X1 |
| IDHS CODE: | EPF CAT : 40E | COMIREX NO: | 25X1 |
| MOSKVA SCIENTIFIC RSCH INST MACH BLDG SSM ACT | UR | 555130N 0373630E | |
| WAC NO : 0167 | BE/OBJ NO: | NPIC NO : - 45-B2 | 25X1 |
| IDHS CODE: | EPF CAT : 65A | COMIREX NO: | 25X1 |
| MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | UR | 554547N 0375209E | |
| WAC NO : 0167 | BE/OBJ NO: | NPIC NO : - 58-N | 25X1 |
| IDHS CODE: | EPF CAT : 40E | COMIREX NO: | 25X1 |
| MOSKVA GUIDED MISSILE/SPACE RSCH CTR SSM ACT | UR | 554547N 0375209E | |
| WAC NO : 0167 | BE/OBJ NO: | NPIC NO : - 58-N | 25X1 |
| IDHS CODE: | EPF CAT : 40H | COMIREX NO: | 25X1 |
| MOSKVA MISSILE PRODUCTION PLT FILI 23 SSM ACT | UR | 554530N 0372928E | |
| WAC NO : 0167 | BE/OBJ NO: | NPIC NO : - 46-I | 25X1 |
| IDHS CODE: | EPF CAT : 40E | COMIREX NO: | 25X1 |
| FAUSTOVO AEROSPACE R+D FACILITY SSM ACTIVITY | UR | 552746N 0383143E | |
| WAC NO : 0167 | BE/OBJ NO: | NPIC NO : - 50-B | 25X1 |
| IDHS CODE: | EPF CAT : 40H | COMIREX NO: | 25X1 |
| DNEPROPETROVSK MISSILE DPC SSM ACTIVITY | UR | 482601N 0345828E | |

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

WAC NO : 0234 BE/OBJ NO: NPIC NO : - 7-C
IDHS CODE: EPF CAT : 40E COMIREX NO:
MISSILES, SSM DEVELOPMENTS R+D/PROD INSTLS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

THIS REPORT DESCRIBES THE RECENT DEVELOPMENTS AT EIGHT SOVIET STRATEGIC MISSILE RESEARCH, DEVELOPMENT, AND PRODUCTION FACILITIES INVOLVED IN SSM ACTIVITY. CURRENT PRODUCTION PROGRAMS AT THESE INSTALLATIONS INCLUDE THOSE FOR THE SS-11, SS-16/-20, SS-17, SS-18, SS-19, SS-N-7, SS-N-9, AND SS-N-3/-12 SYSTEMS. THERE IS EVIDENCE OF NEW AND MODIFIED SYSTEMS INCLUDING AT LEAST FOUR FOLLOW-ON/NEW STRATEGIC SSM SYSTEMS AND AT LEAST FIVE NEW OR MODIFIED TACTICAL MISSILE SYSTEMS.

25X1

25X1

CIA INFR IS10048K-79 12 MAR 79

SEC CLASS: 13

MSN:

0004P

ACCN: 5086491 25X1

MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER

YE

WAC NO :
IDHS CODE:

BE/OBJ NO: EPF CAT : 35

NPIC NO : -
COMIREX NO:

THIS MEMO SUMMARIZES MILITARY ACTIVITY IN THE SOUTHERN BORDER AREA OF THE YEMEN ARAB REPUBLIC (YAR) SPECIFICALLY ANALYZED IS THE ACTIVITY WEST OF QATABAH IN THE YAR TO DETERMINE THE EXTENT OF THE SOUTH YEMENI SUPPORTED OFFENSIVE IN THIS AREA.*

25X1

116
TOP SECRET CHESS RUFF ZARF UMBRA

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

CIA INFR IS10042K-79 08 MAR 79 SEC CLASS: 13 MSN: 0003P ACCN: S086492

25X1

YANGPACHING GEOTHERMAL POWER STATION

WAC NO : 0437

BE/OBJ NO:

CH 300321N 0902939E

NPIC NO : - 26-A

IDHS CODE:

EPF CAT : 30E

COMIREX NO:

25X1
25X1

THIS MEMO PROVIDES INFORMATION ON YANGBAJING (YANG-PA-CHING) GEOTHERMAL POWER STATION, CHINA. THE

25X1

25X1

CIA INFR IS10021K-79 08 FEB 79 SEC CLASS: 13 MSN: 0004P ACCN: S086494

25X1

DEPUTATSKIY TROPOSCATTER/MICROWAVE TOWER POSS

WAC NO : 0067

BE/OBJ NO:

UR 6912 N 13947 E

NPIC NO : -

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1

KAZACHYE U/I CONSTRUCTION

WAC NO : 0068

BE/OBJ NO:

UR 7044 N 13610 E

NPIC NO : -

IDHS CODE:

EPF CAT : 10B

COMIREX NO:

25X1

UST KUYGA MICROWAVE TOWER SITE POSS U/C

WAC NO : 0068

BE/OBJ NO:

UR 7001 N 13531 E

NPIC NO : -

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1

KULAR COMMUNICATIONS FACILITY SEARCH

WAC NO : 0068

BE/OBJ NO:

UR 7038 N 13420 E

NPIC NO : -

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

TIKSI TROPOSCATTER STATION 19 METER DISH ANTS

WAC NO : 0068

BE/OBJ NO:

UR 713806N 1284509E

NPIC NO : - 6-B

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1
25X1

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

THE SOVIETS ARE KNOWN TO HAVE NEGOTIATED WITH THE JAPANESE FOR THE PURCHASE OF TROPOSCATTER AND MICROWAVE COMMUNICATIONS FACILITIES TO BE INSTALLED DURING 1976 IN THE REMOTE TIKSI-DEPUTATSKIY AREA OF NORTHERN SIBERIA. THE TOWNS AND SURROUNDING AREAS OF TIKSI, KULAR, KAZACHYE, UST KUYGA, AND DEPUTATSKIY WERE SEARCHED FOR EVIDENCE OF NEW COMMUNICATIONS FACILITIES AND NEW ECONOMIC OR MILITARY ACTIVITY. A PREVIOUS OIA REPORT NOTED LITTLE NEW ACTIVITY IN ANY OF THESE FIVE TOWNS AS OF MAY 1976, BUT NEW CONSTRUCTION HAS SINCE OCCURRED AT OR NEAR ALL FIVE TOWNS. TWO TROPOSCATTER DISHES WERE ADDED TO AN EXISTING TROPOSCATTER SITE AT TIKSI AND A TOWER WAS CONSTRUCTED ON A MOUNTAIN NEAR DEPUTATSKIY. SOME NEW CONSTRUCTION, MOSTLY BUILDINGS, WAS OBSERVED AT KAZACHYE, KULAR, AND UST-KUYGA BUT NOTHING SUGGESTIVE OF COMMUNICATIONS FACILITIES WAS OBSERVED EXCEPT FOR AN AREA OF EXCAVATION ON A HIGH BLUFF OVERLOOKING UST-KUYGA. THE LATTER COULD POSSIBLY BE THE SITE FOR A MICROWAVE TOWER.

25X1

CIA INFR IS10036K-79 01 MAR 79 SEC CLASS: 13 MSN: 0003P ACCN: S086495 25X1

ASTRAKHAN GAS FIELD DEVELOPMENT

UR 4621 N 04803 E

WAC NO : 0248

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 30A

COMIREX NO:

25X1

A 70,000-SQUARE-KILOMETER AREA NORTH AND WEST OF ASTRAKHAN WAS SEARCHED TO DETERMINE THE EXTENT OF DEVELOPMENT OF THE ASTRAKHAN GASFIELD, A NEW FIELD THE SOVIETS ARE BEGINNING TO DEVELOP. THE ACTIVITY OBSERVED CONSISTS OF EXPLORATORY DRILLING COVERING AN ELONGATED AREA OF ABOUT 19,500 SQUARE KILOMETERS TRENDING 290 KM EAST AND WEST. THE HEAVIEST CONCENTRATION OF EXPLORATORY DRILLING OPERATIONS WAS IN A 3,000-SQUARE-KILOMETER AREA CENTERED ABOUT 60 KM NORTHWEST OF ASTRAKHAN.

25X1

25X1

25X1

CIA INFR IS10031J-79 26 FEB 79 SEC CLASS: 24 MSN: 0005P ACCN: S086497 25X1

MILITARY, ARMORED FORCES REORGANIZATION

IZ

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 35

COMIREX NO:

25X1

118
TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

CIA INFR IS10035J-79 28 FEB 79 [] SEC CLASS: 25 MSN: 0007P ACCN: S086498 25X1

ELECTRONICS, RADAR NETWORK COASTAL/NW BORDER AG
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 25A COMIREX NO:

THIS MEMO PROVIDES THE DISPOSITION OF ALGERIA'S EARLY WARNING, GROUND CONTROL INTERCEPT, AND HEIGHT FINDING RADAR NETWORK ALONG THE COAST AND THE WESTERN BORDER WITH MOROCCO, WESTERN SAHARA, AND PART OF MAURITANIA. ALSO INCLUDED ARE THE RADARS ASSOCIATED WITH ALGERIA'S SA-2 AND SA-6 SURFACE-TO-AIR (SAM) UNITS.

WITH DOCUMENTS LISTING THE ELECTRONIC ORDER OF BATTLE FOR ALGERIA.*

CORRELATED

25X1

CIA INFR IS10037K-79 07 MAR 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S086499 25X1

MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER YE
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS MEMORANDUM SUMMARIZES OIA'S ANALYSIS OF MILITARY ACTIVITY IN THE SOUTHERN BORDER AREA OF THE YEMEN ARAB REPUBLIC (YAR). SPECIFICALLY, THE ACTIVITY IN THE VICINITY OF THE MAJOR YAR BORDER TOWNS OF AL BAYDAH AND QATABAH IS ADDRESSED. THESE TWO BORDER TOWNS HAVE BEEN THE SCENE OF RECENT HEAVY FIGHTING, BETWEEN THE YAR ARMED FORCES AND NATIONAL DEMOCRATIC FRONT (NDF) FORCES OPERATING FROM THE PEOPLE'S DEMOCRATIC REPUBLIC OF YEMEN (PDYR).*

25X1

25X1

CIA INFR IS10039K-79 06 MAR 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S086500 25X1

MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER YE
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS MEMORANDUM SUMMARIZES OIA'S ANALYSIS OF MILITARY ACTIVITY IN THE SOUTHERN BORDER AREA OF THE YEMEN ARAB REPUBLIC (YAR). OIA HAS ANALYZED THE ACTIVITY IN THE VICINITY OF THE YAR BORDER TOWNS OF QATABAH AND AL BAYDAH TO DETERMINE THE EXTENT OF PENETRATION OF THE SOUTH YEMEN (PDYR) SUPPORTED OFFENSIVE IN THESE AREAS.

25X1

CIA INFR IS10045K-79 09 MAR 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S086501 25X1

MILITARY, ACTIVITY SUMMARY SOUTHERN BORDER YE
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS MEMORANDUM SUMMARIZES OIA'S ANALYSIS OF MILITARY ACTIVITY IN THE SOUTHERN BORDER AREA OF THE YEMEN

TOP SECRET CHESS RUFF ZARF UMBRA

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25X1

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TOP SECRET CHESS RUFF ZARF UMBRA

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ARAB REPUBLIC (YAR) BASED ON SPECIFICALLY, OIA HAS ANALYZED THE
ACTIVITY IN THE YAR NORTH OF QATABAH AND SOUTHEAST OF YARIM TO DETERMINE THE DISPOSITION OF SOUTH YEMEN
(PDY) SUPPORTED FORCES AND YAR FORCES IN THIS AREA.

25X1

25X1

CIA INFR IS10024K-79 12 FEB 79

SEC CLASS: 14 X MSN:

0006P

ACCN: S086503

25X1

PELINDABA STONE QUARRY EXPLOSIONS

SF 2549 N 02755 E

WAC NO : 1300

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 30A

COMIREX NO:

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

25X1

CIA INFR IS10034J-79 26 FEB 79 SEC CLASS: 24 MSN: 0003P ACCN: S086505 25X1

PETROPAVLOVSK/YELIZOVO AIRFIELD COOT MODIFIED UR 531017N 1582711E
WAC NO : 0194 BE/OBJ NO: NPIC NO : - 11-A
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1
25X1

CIA INFR IS10038K-79 06 MAR 79 SEC CLASS: 13 MSN: 0003P ACCN: S086506 25X1

MAKAT ASM IMPACT AREA B RADAR TGTS/CRTRS NEW UR 480600N 0534400E
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 25-A
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1

TARGET AREA B IN THE MAKAT AIR-TO-SURFACE (ASM) IMPACT AREA HAS RECENTLY BEEN EXPANDED TO INCLUDE TWO
ADDITIONAL RADARS. THIS BRINGS TO FOUR THE NUMBER OF RADAR TARGETS IN THIS AREA. IN ADDITION, TWO IMPACT
CRATERS HAVE RECENTLY APPEARED NEAR TWO OF THESE RADAR SITES.*

DIA NBRG NDA07-5156-78 19 MAR 79 SEC CLASS: 05G MSN: 0001P ACCN: S086537

SHUANGCHENG TZO MILITARY AREA CH 4130 N 10030 E
WAC NO : 0287 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35 COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5157-78 19 MAR 79 SEC CLASS: 05G MSN: 0001P ACCN: S086538

HSIMIAO ARMY BARRACKS AL1 CH 410120N 1001312E
WAC NO : 0287 BE/OBJ NO: NPIC NO : - 1-B2
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1
25X1

DIA NBRG NDA07-5158-78 19 MAR 79 SEC CLASS: 05G MSN: 0001P ACCN: S086539

TOP SECRET CHESS RUFF ZARF UMBRA

25X1
25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X15X1

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|---|------|---------------|-----------|---------------------------|---------------|
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND A | | | | CH 402546N 0995046E | |
| WAC NO : 0287 BE/OBJ NO: [] | | | | NPIC NO : - 2-D | 25X1 |
| IDHS CODE: [] EPF CAT : 35 | | | | COMIREX NO: [] | 25X1 |
| DIA | NBRG | NDA07-5159-78 | 19 MAR 79 | SEC CLASS: 056 MSN: 0001P | ACCN: S086540 |
| HSIMIAO ARMY BARRACKS AL2 | | | | CH 410025N 1001310E | |
| WAC NO : 0287 BE/OBJ NO: [] | | | | NPIC NO : - | 25X1 |
| IDHS CODE: [] EPF CAT : 35A | | | | COMIREX NO: | 25X1 |
| DIA | NBRG | NDA07-5160-78 | 19 MAR 79 | SEC CLASS: 056 MSN: 0001P | ACCN: S086541 |
| SHUANGCHENG TZU ARMY BARRACKS AL1 | | | | CH 410650N 1001650E | |
| WAC NO : 0287 BE/OBJ NO: [] | | | | NPIC NO : - 1-H1 | 25X1 |
| IDHS CODE: [] EPF CAT : 35A | | | | COMIREX NO: | 25X1 |
| DIA | NBRG | NDA07-5161-78 | 19 MAR 79 | SEC CLASS: 056 MSN: 0001P | ACCN: S086542 |
| SHUANGCHENG TZU ARMY BARRACKS AL2 | | | | CH 410631N 1002025E | |
| WAC NO : 0287 BE/OBJ NO: [] | | | | NPIC NO : - 1-H2 | 25X1 |
| IDHS CODE: [] EPF CAT : 35A | | | | COMIREX NO: [] | 25X1 |
| DIA | NBRG | NDA07-5162-78 | 19 MAR 79 | SEC CLASS: 056 MSN: 0001P | ACCN: S086543 |
| SHUANGCHENG TZU DEFENSIVE STRONGPOINT | | | | CH 411613N 1002013E | |
| WAC NO : 0287 BE/OBJ NO: [] | | | | NPIC NO : - 1-K2 | 25X1 |
| IDHS CODE: [] EPF CAT : 35 | | | | COMIREX NO: | 25X1 |
| DIA | NBRG | NDA07-5163-78 | 19 MAR 79 | SEC CLASS: 056 MSN: 0001P | ACCN: S086544 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 5 | | | | CH 414557N 1004208E | |
| WAC NO : 0287 BE/OBJ NO: [] | | | | NPIC NO : - 8 | 25X1 |
| IDHS CODE: [] EPF CAT : 35 | | | | COMIREX NO: [] | 25X1 |
| DIA | NBRG | NDA07-5164-78 | 19 MAR 79 | SEC CLASS: 056 MSN: 0001P | ACCN: S086545 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 4 | | | | CH 414323N 1002727E | |
| WAC NO : 0287 BE/OBJ NO: [] | | | | NPIC NO : - 7 | 25X1 |
| IDHS CODE: [] EPF CAT : 35 | | | | COMIREX NO: [] | 25X15X1 |
| DIA | NBRG | NDA07-5165-78 | 19 MAR 79 | SEC CLASS: 056 MSN: 0001P | ACCN: S086546 |
| SHUANGCHENG TZU SPECIAL DEFENSE MOUND 2 | | | | CH 415310N 1003327E | |

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TOP SECRET CHESS RUFF ZARF UMBRA

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WAC NO : 0287 BE/OBJ NO: NPIC NO : - 20
IDHS CODE: EPF CAT : 35 COMIREX NO: ACCN: S086547

DIA NBRG NDA07-5166-78 19 MAR 79 SEC CLASS: 05G MSN: 0001P
SHUANGCHENG TZU SPECIAL DEFENSE MOUND 3 CH 415610N 1010140E
WAC NO : 0287 BE/OBJ NO: NPIC NO : - 3-B
IDHS CODE: EPF CAT : 35 COMIREX NO: ACCN: S086548

DIA NBRG NDA07-5167-78 19 MAR 79 SEC CLASS: 05G MSN: 0001P
SHUANGCHENG TZU WEAPONS POSITIONS CH 420318N 1012212E
WAC NO : 0287 BE/OBJ NO: NPIC NO : - 28-C
IDHS CODE: EPF CAT : 35 COMIREX NO: ACCN: S086549

DIA NBRG NDA07-5168-78 19 MAR 79 SEC CLASS: 05G MSN: 0001P
SHUANGCHENG TZU SPECIAL DEFENSE MOUND 6 CH 420703N 1005405E
WAC NO : 0287 BE/OBJ NO: NPIC NO : - 25
IDHS CODE: EPF CAT : 35 COMIREX NO: ACCN: S086550

DIA NBRG NDA07-5169-78 19 MAR 79 SEC CLASS: 05G MSN: 0001P
SHUANGCHENG TZU SPECIAL DEFENSE MOUND 1 CH 421851N 1010654E
WAC NO : 0287 BE/OBJ NO: NPIC NO : - 19
IDHS CODE: EPF CAT : 35 COMIREX NO: ACCN: S086551

DIA NBRG NDA07-5170-78 19 MAR 79 SEC CLASS: 05G MSN: 0001P
OCHINACHI DEFENSIVE STRONGPOINT CH 422040N 1011400E
WAC NO : 0287 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35 COMIREX NO: ACCN: S086552

DIA NBRG NDA06-5144-77 16 MAR 79 SEC CLASS: 05A MSN: 0001P
AL ISKANDARIYAH PORT FACILITIES EG 311140N 0295255E
WAC NO : 0448 BE/OBJ NO: NPIC NO : - 2
IDHS CODE: EPF CAT : 751 COMIREX NO: ACCN: S086553

DIA NBRG NDA07-5171-78 14 MAR 79 SEC CLASS: 05G MSN: 0001P
CHINCHOU MILITARY AREA 2 CH 4107 N 12111 E
WAC NO : 0289 BE/OBJ NO: NPIC NO : -

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| | IDHS CODE: | | EPF CAT : 35 | COMIREX NO: | | 25X1 |
| DIA | NBRG | NDA07-5172-78 | 14 MAR 79 | SEC CLASS: 05G MSN: | 0001P | ACCN: S086554 |
| | | CHINCHOU MILITARY BARRACKS AL5 + HQ ARTY DIV | | CH 410744N 1211059E | | |
| | | WAC NO : 0289 | BE/OBJ NO: | NPIC NO : - 7-L | | 25X1 |
| | | IDHS CODE: | EPF CAT : 35A | COMIREX NO: | | 25X1 |
| DIA | NBRG | NDA07-5173-78 | 14 MAR 79 | SEC CLASS: 05G MSN: | 0001P | ACCN: S086555 |
| | | PEICHEN ARMY BARRACKS AL1 | | CH 413607N 1214655E | | |
| | | WAC NO : 0289 | BE/OBJ NO: | NPIC NO : - 78 | | 25X1 |
| | | IDHS CODE: | EPF CAT : 35A | COMIREX NO: | | 25X1 |
| DIA | NBRG | NDA07-5174-78 | 14 MAR 79 | SEC CLASS: 05G MSN: | 0001P | ACCN: S086556 |
| | | HEISHAN ARMY BARRACKS AL1 | | CH 414115N 1220640E | | |
| | | WAC NO : 0289 | BE/OBJ NO: | NPIC NO : - 25-A3 | | 25X1 |
| | | IDHS CODE: | EPF CAT : 35A | COMIREX NO: | | 25X1 |
| DIA | NBRG | NDA07-5175-78 | 19 MAR 79 | SEC CLASS: 05G MSN: | 0001P | ACCN: S086557 |
| | | PANSHIH MILITARY AREA 1 | | CH 4256 N 12604 E | | |
| | | WAC NO : 0290 | BE/OBJ NO: | NPIC NO : - | | 25X1 |
| | | IDHS CODE: | EPF CAT : 35 | COMIREX NO: | | 25X1 |
| DIA | NBRG | NDA07-5176-78 | 19 MAR 79 | SEC CLASS: 05G MSN: | 0001P | ACCN: S086558 |
| | | PANSHIH ARMY BARRACKS SE AL1 + HQ ARTY DIV | | CH 425604N 1260424E | | |
| | | WAC NO : 0290 | BE/OBJ NO: | NPIC NO : - 137 | | 25X1 |
| | | IDHS CODE: | EPF CAT : 35A | COMIREX NO: | | 25X1 |
| DIA | NBRG | NDA07-5177-78 | 19 MAR 79 | SEC CLASS: 05G MSN: | 0001P | ACCN: S086559 |
| | | HUINAN ARMY BARRACKS WEST AL1 | | CH 424103N 1255943E | | |
| | | WAC NO : 0290 | BE/OBJ NO: | NPIC NO : - 74-C | | 25X1 |
| | | IDHS CODE: | EPF CAT : 35A | COMIREX NO: | | 25X1 |
| DIA | NBRG | NDA07-5178-78 | 19 MAR 79 | SEC CLASS: 05G MSN: | 0001P | ACCN: S086560 |
| | | HAILUNG ARMY BARRACKS WEST AL3 | | CH 423847N 1254839E | | |
| | | WAC NO : 0290 | BE/OBJ NO: | NPIC NO : - | | 25X1 |
| | | IDHS CODE: | EPF CAT : 35A | COMIREX NO: | | 25X1 |

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DIA NBRG NDA07-5179-78 19 MAR 79

SEC CLASS: 05G MSN:

0001P

ACCN: S086561

PANSHIH ARMY BARRACKS SOUTH AL2

CH 425150N 1260250E

WAC NO : 0290

BE/OBJ NO:

NPIC NO : - 137-C1

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

DIA IIM 5B1-71577-79 20 MAR 79

SEC CLASS: 14B MSN:

0001P

ACCN: S086562

MILITARY, GAZ-66 SMOKE GENERATING VEHICLE

UR

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 35E

COMIREX NO:

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TOP SECRET CHESS RUFF ZARF UMBRA

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| DIA | NBRG | NDA07-5180-78 | 22 MAR 79 | SEC CLASS: 05G | MSN: | 0001P | ACCN: S086572 |
| | | LIAOYANG MILITARY AREA 1 | | CH | 4116 N 12310 E | | |
| | | WAC NO : 0290 | BE/OBJ NO: | NPIC NO | : - | | |
| | | IDHS CODE: | EPF CAT : 35 | COMIREX NO: | | | |
| DIA | NBRG | NDA07-5181-78 | 22 MAR 79 | SEC CLASS: 05G | MSN: | 0001P | ACCN: S086573 |
| | | LIAOYANG ARMY BARRACKS AL2 + HQ ARTILLERY DIV | | CH | 411443N 1230827E | | |
| | | WAC NO : 0290 | BE/OBJ NO: | NPIC NO | : - 46-D | | |
| | | IDHS CODE: | EPF CAT : 35A | COMIREX NO: | | | |
| DIA | NBRG | NDA07-5182-78 | 22 MAR 79 | SEC CLASS: 05G | MSN: | 0001P | ACCN: S086574 |

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TOP SECRET CHESS RUFF ZARF UMBRA

TOP SECRET CHESS RUFF ZARF UMBRA

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|---|----------------|---------------------------|---------------|
| HAICHENG ARMY BARRACKS NNE AL7 | | CH 405148N 1224519E | |
| WAC NO : 0289 | BE/OBJ NO: [] | NPIC NO : - | 25X1 |
| IDHS CODE: [] | EPF CAT : 35A | COMIREX NO: | 25X1 |
| DIA NBRG NDA07-5190-78 | 22 MAR 79 | SEC CLASS: 05G MSN: 0001P | ACCN: S086579 |
| SSUPING MILITARY AREA 1 | | CH 4310 N 12420 E | |
| WAC NO : 0290 | BE/OBJ NO: [] | NPIC NO : - | 25X1 |
| IDHS CODE: [] | EPF CAT : 35 | COMIREX NO: | 25X1 |
| DIA NBRG NDA07-5183-78 | 22 MAR 79 | SEC CLASS: 05G MSN: 0001P | ACCN: S086580 |
| SSUPING MILITARY BKS AL1/HQ ANTITANK ARTY DIV | | CH 431024N 1242105E | |
| WAC NO : 0290 | BE/OBJ NO: [] | NPIC NO : - 57-C | 25X1 |
| IDHS CODE: [] | EPF CAT : 35A | COMIREX NO: [] | 25X1 |
| DIA NBRG NDA07-5184-78 | 22 MAR 79 | SEC CLASS: 05G MSN: 0001P | ACCN: S086581 |
| TUNGLIAO ARMY BARRACKS SW AL7 | | CH 433520N 1221415E | |
| WAC NO : 0289 | BE/OBJ NO: [] | NPIC NO : - 29-B6 | 25X1 |
| IDHS CODE: [] | EPF CAT : 35A | COMIREX NO: [] | 25X1 |
| DIA NBRG NDA07-5185-78 | 22 MAR 79 | SEC CLASS: 05G MSN: 0001P | ACCN: S086582 |
| PAICHENG ARMY BARRACKS NORTH AL5 | | CH 453910N 1225015E | |
| WAC NO : 0284 | BE/OBJ NO: [] | NPIC NO : - 5-K1 | 25X1 |
| IDHS CODE: [] | EPF CAT : 35A | COMIREX NO: [] | 25X1 |

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DIA IIM 5B3-71666-79 27 MAR 79 SEC CLASS: 13 MSN: 0017P ACCN: S086654 25X1

AIRFIELDS, AIRCRAFT BUNKER SUMMARY

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 05A

AIRFIELDS, AIRCRAFT BUNKER SUMMARY

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 05A

AIRFIELDS, AIRCRAFT BUNKER SUMMARY

WAC NO : BE/OBJ NO:

YO
NPIC NO : -
COMIREX NO:
RO
NPIC NO : -
COMIREX NO:
AL
NPIC NO : -

TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

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| IDHS CODE: | EPF CAT : 05A | COMIREX NO: |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | | BU |
| WAC NO : | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 05A | COMIREX NO: |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | | HU |
| WAC NO : | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 05A | COMIREX NO: |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | | CZ |
| WAC NO : | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 05A | COMIREX NO: |

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|------------------------------------|---------------|-------------|
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | | PL |
| WAC NO : | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 05A | COMIREX NO: |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | | UR |
| WAC NO : | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 05A | COMIREX NO: |
| AIRFIELDS, AIRCRAFT BUNKER SUMMARY | | MG |
| WAC NO : | BE/OBJ NO: | NPIC NO : - |
| IDHS CODE: | EPF CAT : 05A | COMIREX NO: |

THIS MEMORANDUM SUMMARIZES THE 1979 IMAGERY ANALYSIS MEMORANDA THAT MAKE UP THE AIRCRAFT BUNKER STUDY. IT INCLUDES SEVERAL TABLES WHICH TOTAL THE NUMBER OF AIRCRAFT BUNKERS BY COUNTRY, MILITARY DISTRICT, SIZE, AND CONSTRUCTION STATUS.*

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TOP SECRET CHESS RUFF ZARF UMBRA

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DIA IIM 5B3-71792-79 04 APR 79

SEC CLASS: 13

MSN:

0001P

ACCN: S086687

25X1

GORODOK AIRFIELD NE LRA AIRCRAFT SUPPORT CPBL

UR 494935N 0234130E

WAC NO : 0232

BE/OBJ NO:

NPIC NO : - 341-A

25X1

IDHS CODE:

EPF CAT : 05A

COMIREX NO:

25X1

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TOP SECRET CHESS RUFF ZARF UMBRA

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CIA IRP IS10006K-79 MAR 79 SEC CLASS: 13 MSN: 0014P ACCN: S086703 25X1

| | | | |
|---------------------|----------------|---------------------|---------|
| URENGOY GAS FIELD 4 | BE/OBJ NO: [] | UR 660307N 0765138E | 25X1 |
| WAC NO : 0094 | EPF CAT : 30A | NPIC NO : - 28 | 25X1 |
| IDHS CODE: [] | | COMIREX NO: [] | 25X1 |
| URENGOY GAS FIELD 3 | BE/OBJ NO: [] | UR 660521N 0764033E | 25X1 |
| WAC NO : 0094 | EPF CAT : 30A | NPIC NO : - 27 | 25X1 |
| IDHS CODE: [] | | COMIREX NO: [] | 25X1 |
| URENGOY GAS FIELD 2 | BE/OBJ NO: [] | UR 662859N 0764052E | 25X1 |
| WAC NO : 0094 | EPF CAT : 30A | NPIC NO : - 26 | 25X1 |
| IDHS CODE: [] | | COMIREX NO: [] | 25X1 |
| URENGOY GAS FIELD 1 | BE/OBJ NO: [] | UR 660300N 0764735E | 25X1 |
| WAC NO : 0094 | EPF CAT : 30A | NPIC NO : - 25 | 25X1 |
| IDHS CODE: [] | | COMIREX NO: [] | 25X15X1 |

THE URENGOY GASFIELD IN NORTHWESTERN SIBERIA, POSSIBLY THE LARGEST GASFIELD IN THE WORLD, IS BEING DEVELOPED RAPIDLY AND IS IN LIMITED PRODUCTION. GAS WAS FIRST DISCOVERED AT URENGOY IN 1966 AND DEVELOPMENT OF THE FIELD BEGAN IN THE EARLY 1970S. THE URENGOY FIELD WILL PROVIDE MOST OF THE GROWTH IN SOVIET NATURAL GAS PRODUCTION IN THE 1980S AND WILL CONTRIBUTE SIGNIFICANTLY TO THE USSR'S ABILITY TO INCREASE ENERGY SUPPLIES.

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TOP SECRET CHESS RUFF ZARF UMBRA

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NPIC MEMO 03 APR 79 SEC CLASS: 14B MSN: 0002P ACCN: S086726

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| | | |
|--------------------------------------|---------------|---------------------|
| KRASNYY BOR RADIO RELAY STATION NEW | | UR 594025N 0304210E |
| WAC NO : 0153 | BE/OBJ NO: | NPIC NO : - 83-A2 |
| IDHS CODE: | EPF CAT : 25D | COMIREX NO: |
| LYUBAN RADIO RELAY STATION NORTH NEW | | UR 592150N 0311450E |
| WAC NO : 0153 | BE/OBJ NO: | NPIC NO : - 103-A1 |
| IDHS CODE: | EPF CAT : 25D | COMIREX NO: |
| KIRISHI RADIO RELAY STATION | | UR 592630N 0320040E |
| WAC NO : 0153 | BE/OBJ NO: | NPIC NO : - 138-B |
| IDHS CODE: | EPF CAT : 25D | COMIREX NO: |
| KLINETS RADIO RELAY STATION NEW | | UR 592900N 0325400E |
| WAC NO : 0153 | BE/OBJ NO: | NPIC NO : - 230 |
| IDHS CODE: | EPF CAT : 25D | COMIREX NO: |
| CHAGODA RADIO RELAY STATION NEW | | UR 591054N 0352005E |
| WAC NO : 0154 | BE/OBJ NO: | NPIC NO : - 119-A |
| IDHS CODE: | EPF CAT : 25D | COMIREX NO: |
| ANISIMOVO RADIO RELAY STATION NEW | | UR 591000N 0350930E |
| WAC NO : 0154 | BE/OBJ NO: | NPIC NO : - 183 |
| IDHS CODE: | EPF CAT : 25D | COMIREX NO: |

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THIS MEMO REVIEWS ALL PERTINENT KEYHOLE PHOTOGRAPHY TO IDENTIFY NEW RADIO-RELAY STATIONS BETWEEN SAMOYLOVO AND CHEREPOVETS, USSR. TWO STATIONS, ANISIMOVO AND CHAGODA RADIO-RELAY STATIONS WERE IDENTIFIED. THIS MEMO PROVIDES THE NUMBER, TYPE, AND ORIENTATION OF THE ANTENNAS OBSERVED AT THE STATIONS. ALSO, FOUR NEW RADIO-RELAY STATIONS THAT EXTEND THE RADIO-RELAY LINE FROM SAMOYLOVO TO KRASNYY BOR (LENINGRAD) WERE IDENTIFIED. THE NEW STATIONS WERE IN THE STAGES OF CONSTRUCTION AND NO ANTENNAS WERE OBSERVED.*

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TOP SECRET CHESS RUFF ZARF UMBRA

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25X1

NPIC MEMO 04 APR 79

SEC CLASS: 14D MSN:

0002P

ACCN: S086727

VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER

WAC NO : 0291 BE/OBJ NO: EPF CAT : 25B

VLADIVOSTOK RADIO/TV BROADCAST STUDIO CENTER

WAC NO : 0291 BE/OBJ NO: EPF CAT : 25D

VLADIVOSTOK TV TRANSMITTER STATION 1

WAC NO : 0291 BE/OBJ NO: EPF CAT : 25B

UR 430657N 1315340E

NPIC NO : - 48-F2

COMIREX NO:

UR 430657N 1315340E

NPIC NO : - 48-F2

COMIREX NO:

UR 430704N 1315501E

NPIC NO : - 48-F1

COMIREX NO:

25X1
25X1

25X1
25X1

25X1
25X1

THIS MEMO PROVIDES A BRIEF DESCRIPTION OF VLADIVOSTOK TELEVISION TRANSMITTER STATION 1 AND VLADIVOSTOK RADIO AND TELEVISION BROADCAST STUDIO CENTER. IT ALSO GIVES THE NUMBER, TYPE, AND ORIENTATIONS OF ANTENNAS OBSERVED AT THESE STATIONS.*

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TOP SECRET CHESS RUFF ZARF UMBRA

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TOP SECRET CHESS RUFF ZARF UMBRA

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DIA IIM 5B3-71796-79 05 APR 79 [REDACTED] SEC CLASS: 13 MSN: 0001P ACCN: S086825 25X1
GOSTOMEL AIRFIELD LRA AIRCRAFT SUPPORT CPBL UR 503601N 0301143E 25X1
WAC NO : 0233 BE/OBJ NO: [REDACTED] NPIC NO : - 17 25X1
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED] 25X1

DIA IIM 5B3-71806-79 06 APR 79 [REDACTED] SEC CLASS: 13 MSN: 0001P ACCN: S086827 25X1
POCHEP AIRFIELD LRA AIRCRAFT SUPPORT CPBL UR 525555N 0332400E 25X1
WAC NO : 0167 BE/OBJ NO: [REDACTED] NPIC NO : - 118-A 25X1
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED] 25X1

DIA IIM 5B3-71823-79 09 APR 79 [REDACTED] SEC CLASS: 13 MSN: 0001P ACCN: S086829 25X1
KALININO AIRFIELD LRA SUPPORT CAPABILITY UR 410630N 0441600E 25X1
WAC NO : 0325 BE/OBJ NO: [REDACTED] NPIC NO : - 25X1
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED] 25X1

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TOP SECRET CHESS RUFF ZARF UMBRA

25X1

TOP SECRET CHESS RUFF ZARF UMBRA

25X1

25X1

DIA IIM 5B3-71822-79 09 APR 79 [REDACTED] SEC CLASS: 13 MSN: 0001P ACCN: S086832 25X1
ENGELS/LEBEDOVO AIRFIELD LRA SUPPORT CPBL UR 511712N 0461355E
WAC NO : 0235 BE/OBJ NO: [REDACTED] NPIC NO : - 6-C 25X1
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: 25X1
DIA IIM 5B3-71801-79 09 APR 79 [REDACTED] SEC CLASS: 13 MSN: 0001P ACCN: S086833 25X1
DOLINSKAYA AIRFIELD LRA SUPPORT CAPABILITY UR 480130N 0324154E
WAC NO : 0233 BE/OBJ NO: [REDACTED] NPIC NO : - 135 25X1
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: 25X1

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TOP SECRET CHESS RUFF ZARF UMBRA

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Top Secret



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